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1
                      UNITED STATES DISTRICT COURT
 2
                       FOR THE DISTRICT OF ARIZONA
 3
 4
             Bard IVC Filters
                                   ) MD-15-02641-PHX-DGC
     In Re:
 5
     Products Liability Litigation)
                                   ) Phoenix, Arizona
 6
                                  __) May 29, 2018
    Doris Jones, an individual,
                                   ) 1:00 p.m.
 7
                   Plaintiff,
                                   ) CV 16-00782-PHX-DGC
 8
              vs.
 9
     C.R. Bard, Inc., a New
10
     Jersey corporation; and Bard )
     Peripheral Vascular, Inc., an)
     Arizona corporation,
11
12
                   Defendants.
13
14
            BEFORE: THE HONORABLE DAVID G. CAMPBELL, JUDGE
15
                  REPORTER'S TRANSCRIPT OF PROCEEDINGS
16
                   (Jury Trial - Day 9 - P.M. Session)
17
                  (Pages 1993 through 2130, inclusive.)
18
19
20
     Official Court Reporter:
21
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     Proceedings Reported by Stenographic Court Reporter
     Transcript Prepared by Computer-Aided Transcription
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15
16
                              INDEX
17
    WITNESS:
                                DIRECT
                                        CROSS
                                               REDIRECT
                                                          RECROSS
    MELANIE SUSSMAN
18
    By Video Deposition
19
                                 1996
     (Resumed)
20
     JOHN VAN VLEET
    By Mr. Rogers
                                 1996
                                                   2081
21
    By Mr. Clark
                                         2065
22
    ROB CARR
    By Mr. North
                                 2083
23
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1		INDEX OF EXHIBITS	
	EXHIBIT		RECEIVED
2	5169	Apr. 25, 2003 Recovery Retrievable	0105
3	5177	Abbreviated 510(k)	2105
3	51//	Nov. 27, 2002 FDA Clearance Letter Re Recovery Permanent	
4		(Substantial Equivalence)	2104
-	5178	Oct. 25, 2002 Letter IMPRA to FDA	2104
5	0_10	Re Recovery	2103
	5179	Oct. 4, 2002 Letter FDA to IMPRA	
6		Re Recovery	2102
	5182	Aug. 30, 2002 Letter IMPRA to FDA	
7		Re Recovery	2100
_	5187	Aug. 5, 2002 Letter FDA to IMPRA	
8	F107	Re Recovery	2098
9	5197	July 25, 2003 FDA Clearance Letter	
9		Re Recovery Retrievable (Substantial Equivalence)	2107
10	5252	ETR-04-03-02 (RNF v. Competitive	2107
	3232	Product migration resistance)	2117
11	5301	ETR-05-01-06 Animal Model Evaluation of	
		Recovery Filter G1A Femoral System Report	2110
12	5304	ETR 05-02-11 G1A Recovery Filter	
		Femoral System Chronic Animal Study Report	2111
13	5315	Phase 2 Design Review G1A Recovery Filter	
		Femoral Delivery System	2123
14	5316	Phase 3 Design Review (Design Review 3 & 4)	0104
15	5877	G1A Recovery Filter Femoral Delivery System 1996 Memo from Veronica Price	2124 2053
13	5949	ETR-06-05-02 (Test report re G2® Clot	2055
16	3343	Trapping Efficiency)	2121
_	6089	Product Development Cycle PPT	2089
17	7960	Summary of clinical studies conducted	
		In support of FDA application for clearance	2061
18	8362	Eclipse Filter Patient Questions & Answers	2033
19			
~~			
20			
21			
22			
23			
24			
25			
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	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9	1
1	PROCEEDINGS	
2	THE COURT: Ladies and Gentlemen, for your	
3	information we will go until 4:20 today as I have a 4:30	
4	hearing.	
5	Counsel, let's go ahead and continue playing the	01:00PM
6	deposition.	
7	(Video testimony of Melanie Sussman resumed.)	
8	MR. ROGERS: Your Honor, at this time the defense	
9	calls John Van Vleet.	
10	THE COURTROOM DEPUTY: Mr. Van Vleet, if you will	01:05PM
11	please come forward. Stand right here and raise your right	
12	hand, please.	
13	(The witness was sworn.)	
14	THE COURTROOM DEPUTY: Could you state and spell your	
15	name for the record, sir?	01:05PM
16	THE WITNESS: Sure. It's John, J-O-H-N, D. as in	
17	David, Van Vleet, V-A-N capital V-L-E-E-T.	
18	THE COURTROOM DEPUTY: Thank you, sir. Please come	
19	have a seat.	
20	JOHN D. VAN VLEET,	
21	called as a witness herein, having been duly sworn, was	
22	examined and testified as follows:	
23	DIRECT EXAMINATION	
24	BY MR. ROGERS:	
25	Q. Mr. Van Vleet, can you introduce yourself to the jury,	01:06PM

Case 2:15-md-02641-DGC Document 11408 Filed 06/08/18 Page 5 of 138 1997 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 please? 2 Sure. My name is John Van Vleet. 3 Q. And let's get one thing out of the way right out of the box 4 which I'm sure everyone is wondering about. What's up with 5 your leg? 01:06PM I have a repeated injury to my left ACL so I'm in the 6 middle of a two-stage revision. 7 8 Mr. Van Vleet, have you ever been an employee of C.R. Bard? 9 Α. Yes, I have. 10 What years were you employed at C.R. Bard? 01:06PM 11 I began working for Bard in June of 2007. 12 And what -- well, when did you leave Bard? 13 At the end of the calendar year last year. 14 So at the end of 2017? 15 Α. Correct. 01:06PM 16 Can you tell the jury what you are doing now, please? 17 Sure. My position at Bard was the Vice President of 18 Regulatory and Clinical Affairs and it's exactly the same job 19 I'm doing for a smaller company based in Boston, Corindus 20 Vascular Robotics. 01:07PM Do you currently live in Phoenix? Q. I live in Tempe. Α.

21

- 23 How long have you lived in the Phoenix area? Q.
- 24 Α. Since 2007.
- 25 Q. And with your new job, are you going to remain in the

- 1 | Phoenix area?
- 2 A. I will.
- 3 Q. So you are able to work for this Boston company remotely
- 4 and live in Phoenix?
- 5 A. Correct. I will be in the office a week of the month.

01:07PM

- 6 Q. Mr. Van Vleet, do you have family here?
- 7 A. I do.
- 8 Q. Tell us about your family.
- 9 A. Let's see. I have my 90-almost-3-year-old mother, my wife,
- 10 and two of our three children live here. And then I have two

01:07PM

- 11 | adult children that live in Michigan.
- 12 | Q. Mr. Van Vleet, let's talk a little bit more about your time
- 13 at Bard. Were you an employee of the Peripheral Vascular
- 14 | Division?
- 15 A. Yes, I was.

01:07PM

- 16 Q. And tell us what your -- what you did in your role as the
- 17 | VP of Regulatory Clinical Affairs?
- 18 A. So essentially, my responsibilities were to interface with
- 19 all ministries of health throughout the world in the countries
- 20 in which we sold our products. In the U.S. that would be the
- 21 | FDA. And in the cases where those products required a higher
- 22 | level of data, such as human clinical trials, then our teams
- 23 | would need to design and conduct clinical trials to collect
- 24 those data.
- 25 Q. Did your job entail communications with the FDA?

01:08PM

01:08PM

- 1 A. Yes.
- 2 Q. And how frequently were you in communication with the FDA?
- 3 A. At least once a week.
- 4 Q. Mr. Van Vleet, before I ask you some questions about your
- 5 education, tell us where you were born, please.

01:08PM

- 6 A. Sure. I was born about 40 miles from the Haitian border in
- 7 | the Dominican Republic. I was youngest son of four missionary
- 8 parents.
- 9 Q. When did you come to the United States?
- 10 A. I came to go to University in 1977.

01:08PM

- 11 Q. What year did you finish?
- 12 A. Well, I changed majors a few times and I was working full
- 13 | time. I graduated in 2003.
- 14 Q. What was your degree that you finished with?
- 15 A. A Bachelor of Science in biology with a minor in chemistry.

01:09PM

- 16 Q. Are you also -- do you have a degree in medical technology?
- 17 A. I did a 12-month internship and took the boards and
- 18 received my license from the American Society of Clinical
- 19 Pathologists in 1984.
- 20 Q. What does a medical technologist do?

01:09PM

- 21 A. So in order to conduct and analyze samples collected from
- 22 patients, human patients, a team of pathologists are supported
- 23 by med techs, licensed med techs, who then have been
- 24 | specifically trained to conduct these studies.
- 25 | Q. Does that involve a lot of work in a laboratory?

01:09PM

01:10PM

01:10PM

01:10PM

01:10PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

- 1 A. Yes.
- Q. And Mr. Van Vleet, do you have a Master's Degree?
- 3 A. I do.
- 4 Q. In what?
- 5 A. I have a Master's of Science in management with a minor in

6 marketing from Marian College.

- 7 Q. Did you start off your work life in the medical device
- 8 industry?
- 9 A. No.
- 10 Q. And can you tell us the journey you went through to get to
- 11 | the medical device industry?
- 12 A. Sure. I had the good fortune of finding a job in a
- 13 | hospital system in Fort Wayne, Indiana, where I worked at the
- 14 | time. And they had tuition reimbursement, which is how I was
- 15 | able to pay for my college. But after I finished my licensure
- 16 | in medical technology, I was unable to find a position in the
- 17 | field of medicine. So I focused on analytical laboratory type
- 18 of work and I worked analyzing fuels and lubricants and coal
- 19 | and different things like this, basically leveraging my lab
- 20 skills and then also worked briefly as the manager of a
- 21 hazardous waste testing landfill.
- 22 And it was at that time that I was finishing my
- 23 | Master's and I met the person that offered me my first job in
- 24 | medical devices 30 years ago at Bristol-Myers Squibb Orthopedic
- 25 Division-Zimmer.

01:11PM

- 1 Q. Have you been in the medical device industry since that
- 2 time?
- 3 A. I have been lucky enough to be there, yes.
- 4 Q. That's been for about 30 years?
- 5 A. Yes.

01:11PM

01:11PM

- 6 Q. Why have you devoted your career to the field of medical
- 7 devices?
- 8 A. For me, it offered me an opportunity to be involved in the
- 9 delivery of care to patients. I missed not working in the
- 10 | hospital because I did patient care in the hospital. But this
- 11 almost brings both worlds together. You still have an impact
- 12 and you are still delivering care to patients, but you have
- 13 better working hours.
- 14 Q. Let's turn our attention, I quess, to your work at C.R.
- 15 Bard. And I think you told us that you came to Bard in 2007,

01:11PM

- 16 | is that right?
- 17 A. June of 2007.
- 18 Q. So at that point in time, what IVC filter was on the
- 19 market?
- 20 A. At that time, the G2 Filter was on the market for permanent 01:11PM
- 21 indication.
- 22 | Q. And did you have responsibilities for the G2 Filter?
- 23 A. I did.
- 24 Q. And what was the first project that you were involved in
- 25 regarding the G2 Filter?

01:12PM

- 1 A. So the study of -- for the submission to the FDA had been
- 2 essentially completed. The data were being scrubbed and they
- 3 were being analyzed. So essentially, it was to take those data
- 4 and oversee or help write the clinical study report that would
- 5 be submitted to FDA.

01:12PM

- 6 Q. When you are referring to a clinical study, are you
- 7 referring to the EVEREST study?
- 8 | A. I am.
- 9 Q. So when you arrived in 2007, had the G2 already been on the
- 10 | market?

01:12PM

- 11 A. Yes.
- 12 Q. And about how long had it been on the market?
- 13 A. Maybe a year or a couple years. Actually, I think it was
- 14 two years. Two years. Yeah.
- 15 Q. And when it was originally cleared and made it into the
- 01:12PM
- 16 | marketplace, was the G2 indicated for permanent retrieval -- or
- 17 | excuse me -- as a permanent filter?
- 18 A. Yes.
- 19 Q. And so the purpose of EVEREST was what?
- 20 A. To evaluate the safety of being able to retrieve the device
- 21 when it was no longer clinically necessary.
- 22 Q. And Mr. Van Vleet, was it necessary for you to educate
- 23 | yourself as part of the process of getting up to speed to do
- 24 | your job about what had happened historically with the G2
- 25 Filter?

01:13PM

2003 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 Α. Yes. 2 And once you were involved in the EVEREST study, did you 3 have communications with FDA about that study? 4 A. Yes. 5 MR. ROGERS: Can we pull up Exhibit 5333, please. 01:13PM 6 And, Your Honor, this is in evidence since this 7 morning, I believe. May we publish? 8 THE COURT: You may. 9 BY MR. ROGERS: 10 Mr. Van Vleet, can you see on your screen this exhibit? 01:13PM 11 Α. I can. 12 And can you tell the jury what this is? 13 This is an IDE annual progress report. IDE stands for 14 Investigational Device Exemption which is the process by which 15 FDA grants manufacturer the permission to conduct trial or a 01:14PM 16 study of a device that's not included in its current approved 17 labeling. That's a long story. 18 Q. When you say "approved labeling" do you mean cleared 19 labeling? 20 A. Cleared labeling. Yes. Correct. 01:14PM 21 Q. What is the distinction between those two things, cleared 22 and approved? 23 Sure. So the IVC filter family of products are Class II 24 products. Those are cleared through an application process

01:14PM

called the 510(k) process. Class III devices are cleared

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 through a usually clinical trial but what's call a PMA process, 2 or premarket approval application and that's generally a longer 3 process as well. And of all the Bard IVC filter products that are 4 5 retrievable, have they all been through the 510(k) clearance 01:14PM 6 process? 7 A. Yes, sir. 8 Mr. Van Vleet, can you describe for the jury just generally 9 what the purpose of this document is? 10 So there is a requirement on an annual basis to provide a 01:15PM 11 comprehensive summary of mostly the adverse events that are 12 collected in the study, because frequently you don't have all 13 of the data points for all the primarium points. And so it's 14 kind of a status report of the study. You actually do two 15 different reports: One every six months as a listing of 01:15PM 16 investigators or people that are actually doing the study and 17 confirming that they have institutional permission to do that; 18 and then this is the more extensive listing of all the adverse 19 events. 20 MR. ROGERS: Scott, would you mind going to Page 33. 01:15PM 21 BY MR. ROGERS: 22 Q. Down at the bottom, Mr. Van Vleet, do you see where it says

- 23 3.7?
- 24 A. Yes.
- 25 Q. Can you read for the jury what that is?

01:15PM

- 1 A. Summary of anticipated and unanticipated adverse effects.
- 2 The study utilizes an independent physician who acts as a
- 3 | medical monitor. The medical monitor's role is to ensure an
- 4 unbiased assessment of adverse events and responsible for the
- 5 review and validation of all reported adverse events that are
- 6 considered serious, device and/or procedure related and that
- 7 occur during the course of the study.
- 8 Q. And so is this where you are periodically providing to FDA
- 9 information about adverse events that happened during the
- 10 | EVEREST study?

01:16PM

01:16PM

- 11 A. Yes.
- 12 MR. ROGERS: Let's go to Page 57, please. And can you
- 13 | rotate that? Can you pull that chart out, I guess, so it's a
- 14 little bigger maybe?
- 15 BY MR. ROGERS:

01:16PM

- 16 Q. Mr. Van Vleet, can you see that okay?
- 17 A. I can.
- 18 | Q. Can you tell the jury what we're looking at here?
- 19 A. This is just a detail listing of all complications that
- 20 | would have been reported in the study. FDA called them adverse
- 21 events.
- 22 Q. And so if an event occurs during the EVEREST study, is Bard
- 23 | obligated to report that?
- 24 A. Yes.
- 25 Q. And let's go on to Page 70, please.

01:17PM

01:17PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 Can you pull that table out? And just so we're oriented, Mr. Van Vleet, I want to 2 3 ask you what some of these columns are. On the far left looks like there's a column called "patient number." What is that? 4 5 So that's a code that's assigned to the patient to 01:17PM de-identify them and protect their anonymity. 6 7 Q. Then there's a column called "AE number." What is that? 8 That is a number -- I'm just trying to orient myself. 9 Okay. So that would be if a patient has an adverse event, they 10 first have their own identifier, and then that adverse event 01:17PM 11 would be Number 1. If they have more than one, the next is 12 Number 2, 3, 4, et cetera. Q. How about that next column that says, "preferred term." 13 14 What is that? 15 Sure. So FDA prefers, and the clinical community prefers 01:18PM 16 that we use a pre-agreed upon listing of names, in other words, 17 that we're always calling the condition or whatever happens the 18 same thing every single time. So that's the preferred name 19 that usually is agreed upon before, or there is a glossary that 20 is included. 01:18PM 21 And moving across the page there is a column that says 22 "event." Do you see that underneath "investigator assessment"? 23 Yes, sir. Α. 24 Q. What is that?

25 A. So that's just basically kind of a more detailed

01:18PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 description of actually what the complication was. And then following that, there's a column called "SAE." Do 2 3 you see that? 4 Α. Yes. What does that stand for? 5 Q. 01:18PM That stands for Serious Advice Effect or Event. 6 7 Q. And there are some Ns we see underneath that. Does that 8 get coded as either N or Y? Α. Yes. 10 Q. For yes or no? 01:19PM 11 Α. Yes. 12 Then we've got a column that says "filter," and what's 13 going on in that column? 14 Sure. So on the case report form where these events are 15 reported to the sponsor, there is a question that asks the 01:19PM 16 physician to give his interpretation or her interpretation as 17 to whether or not that event had something to do with the 18 device, in this case the filter. So it would say "not related" 19 or "related." 20 MR. ROGERS: Scott, if you don't mind could you pull 01:19PM 21 out the section on Patient 06-14, please. And how about pull 22 out everything down through Number 9, if you would, all 23 together.

24 BY MR. ROGERS:

25

Q. Can you see that, Mr. Van Vleet?

01:20PM

01:20PM

01:20PM

01:20PM

01:21PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

- 1 A. Yes.
- Q. And so on that far column, it says 06-14. Are all these
- 3 adverse events, do they all relate to one patient?
- 4 A. They are. There are nine of them total.
- 5 Q. And how many events -- I'm sorry. You just said it. This
- 6 patient had nine events?
- 7 A. Yes.
- 8 Q. Let's kind of walk through those if you would. The first
- 9 one says "hepatotoxicity." What is that?
- 10 A. That means basically poisoning of the liver, essentially.
- 11 | And it looks here that they were taking Dilantin, which is a
- 12 medication for seizure purposes, and they may have reached some
- 13 toxic levels of that.
- 14 Q. Was that coded as being related to the filter?
- 15 A. It was coded as not related.
- 16 Q. And the second issue that this patient had is something
- 17 | called atrial flutter. What is that?
- 18 A. That is a quivering or vibration of the heart. It's very
- 19 | common in people over 65, 70 years of age.
- 20 Q. Was that coded as being related to the filter?
- 21 A. It was coded as not related.
- 22 | Q. And next on the third adverse event is dysphasia. What is
- 23 that?
- 24 A. It is the -- not inability, but the loss of desire to eat,
- 25 essentially.

01:21PM

01:21PM

01:21PM

01:22PM

01:22PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

- 1 Q. And was that coded as being related to the filter?
- 2 A. Not related.
- 3 Q. And just to kind of move this on, Mr. Van Vleet, looks like
- 4 | we've got sinusitis, esophagitis, hiatal hernia, diarrhea, oral
- 5 | candidiasis -- I'm sure I'm not saying that right -- and rash.

- 6 Do you see all those?
- 7 A. I do.
- 8 Q. Were any of those coded as being related to the filter?
- 9 A. They were all coded as not related.
- 10 Q. And then looking more specifically as the more detailed
- 11 description of those events, can you provide the jury some
- 12 | additional information about those things?
- 13 A. Yeah. So Number 4, sinusitis, it would be an infection of
- 14 the sinuses. Esophagitis is an irritation of your swallowing
- 15 portion of your throat. Hiatal hernia is part of your
- 16 intestine, sometimes can protrude through tears in your
- 17 abdominal cavity. Diarrhea is self-explanatory. Oral
- 18 candidiasis is a yeast infection of the mouth. And rash is a
- 19 fungal rash growing in axillae. Axillae is your armpit.
- 20 Q. Were all of these adverse events reported as being adverse
- 21 | events in the EVEREST study?
- 22 A. They were.
- 23 | Q. Mr. Van Vleet, let's switch over to a different page and go
- 24 to Page 57, please.
- MR. ROGERS: And can you pull out the information for

01:22PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 the patient, that very first patient at the top. Thank you. BY MR. ROGERS: 2 3 Q. And Mr. Van Vleet, tell us what's occurring in this 4 particular row. I need to read it for a second. 5 01:23PM Okay. This was a report of a perforation or other 6 7 acute or chronic damage of the inferior vena cava, which is the 8 big vessel that the filter is placed in. So the filter had perforated or damaged the IVC or the inferior vena cava. 10 Was that an adverse event that was reported as being 01:23PM 11 related to the filter? 12 A. Yes. Definitely. Q. Does it specifically say "definitely" there? 13 14 It says "definitely." 15 Q. Mr. Van Vleet, we have seen some examples of the way these 01:23PM 16 adverse events are reported. And the jury has also heard that 17 the adverse event rate for the EVEREST study was over 50 18 percent. And would that include all of these adverse events? 19 Α. Yes. 20 Q. And would it include the adverse events that are not 01:24PM 21 related to the filter or that were coded as not related to the 22 filter? 23 A. Yes.

24 MR. ROGERS: We can bring that down. And Let's call 25 up Exhibit 5335, please.

01:24PM

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
              And, Your Honor, this has been admitted.
 1
 2
    publish?
 3
              THE COURT:
                          Yes.
    BY MR. ROGERS:
 4
         Mr. Van Vleet, can you tell the jury, please, what this is?
 5
         This is another annual progress report on the clinical
 6
 7
     trial, the investigational device exemption study.
 8
     Q.
         So let's go to Page 18 of that document.
 9
              And Mr. Van Vleet, at the bottom of the page there,
10
     what did Bard tell FDA about the complications observed during
                                                                       01:24PM
11
     the EVEREST study?
12
                I will read from the report: In total, there were
13
     10 filter migrations greater than two centimeters reported with
14
     a mean follow-up of five months. These migration were all
15
     caudal in direction between 2.0 and 4.1 centimeters and without
16
     clinical sequelae, which means any further complication.
17
              No subject with filter migration was found to have a
18
     subsequent pulmonary embolus and no filter embolized.
19
    pulmonary embolus, is a blood clot to the lungs. Of these 10
20
    migrated filters, five were successfully retrieved; three were
                                                                       01:25PM
21
     left in place without attempted retrieval; and two remained in
22
    place after a failed retrieval procedure. A total of six
23
     subjects had expired during the course of the EVEREST study.
24
     The following is a summary for two subjects.
25
              Do you want me to continue reading?
                                                                       01:25PM
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1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct		
1	Q. No. That's okay. You can take that down.		
2	Did Bard have subsequent communications with FDA about		
3	caudal migration?		
4	A. Yes, it did.		
5	MR. ROGERS: Can we pull up Exhibit 5334, please.	01:25PM	
6	And, Your Honor, may we publish? This has been		
7	admitted.		
8	THE COURT: You may.		
9	BY MR. ROGERS:		
10	Q. Mr. Van Vleet, how about tell the jury what this is,	01:26PM	
11	please.		
12	A. This is a letter from the FDA to the regulatory		
13	correspondent, a Bard employee, asking them questions about the		
14	application that they were reviewing, the 510(k).		
15	Q. Let's go to Question 3 on the following page.	01:26PM	
16	MR. ROGERS: And could you pull that out, please.		
17	BY MR. ROGERS:		
18	Q. And so Mr. Van Vleet, what did FDA want to know from Bard		
19	about the caudal migration information?		
20	A. Sure. They said that we have reported that there have been	01:26PM	
21	10 migrations in the 100-patient study. This equates to an		
22	incidence of migration of 10 percent. Please explain why this		
23	rate of device migration the clinically acceptable. In		
24	addition, please provide a comparison of the approximate		
25	migration rates of the currently marketed Recovery and G2	01:26PM	

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 Filter devices based on your clinical experience as compared to the investigational Recovery Filter studied in the EVEREST 2 3 trial. 4 Did Bard respond to this letter? 5 Α. Yes. 01:27PM MR. ROGERS: Can we pull up Exhibit 5336? 6 7 And, Your Honor, may we publish? It's been admitted. 8 THE COURT: Yes. 9 BY MR. ROGERS: 10 Mr. Van Vleet, I think we need to probably go to Page 13 of 01:27PM 11 the letter. And do you see the portion there about question Number 3? 12 13 Α. Yes. 14 And what did Bard tell the FDA in regard to caudal 15 migration? 01:27PM 16 Do you want me to read it or paraphrase? 17 0. You can paraphrase. 18 Okay. So they had -- the question originally was 10 19 patients out of the 100-patient study were reported to have 20 some level of migration, which would be 10 percent. And the 01:27PM 21 FDA said, please help us understand why this is clinically 22 acceptable. So the first thing that we did in the response is 23 correct that, because while there were 100 patients in the 24 study, I believe there were only images available for 82. 25 10 divided by 82 is actually 12.2 percent. 01:28PM

01:28PM

01:28PM

01:28PM

01:29PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

So we revised the percentage to show what we knew to be true. And then it talks about the levels of migration and the distances that it migrated.

- 4 Q. During the course of your working with the EVEREST study,
- 5 to your knowledge, were all the adverse events that occurred
- 6 during that study reported to the FDA?
- 7 A. Yes.
- 8 Q. Let's move on to the next document, which is Exhibit 5340.
- 9 MR. ROGERS: And, Your Honor, may we publish? This is 10 already in evidence.
- 11 THE COURT: Yes, you may.
- 12 BY MR. ROGERS:
- 13 Q. Mr. Van Vleet, what is this document?
- 14 A. This is the application to the FDA for request to clear the
- 15 | G2 Filter system. It's a traditional 510(k).
- 16 Q. And was this submitted to the FDA after the EVEREST study
- 17 | was completed?
- 18 A. Yes.
- 19 Q. And about how big is this document, Mr. Van Vleet, if you
- 20 know?
- 21 A. Well, it would be much larger than a typical 510(k) because
- 22 | it would include the entire clinical study report and patient
- 23 line listings. This is probably 1500 pages, perhaps, 1500.
- 24 Q. Let's go over to Page 339 of the document.
- 25 Mr. Van Vleet, tell us what this is, please.

01:29PM

01:30PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-This is actually the title page for the final study report. 1 Α. So was the final study report provided to FDA in its 2 3 entirety? 4 Α. Yes. 5 MR. ROGERS: And can we go over to Page 406? 01:29PM And pull out the table there. 6 7 BY MR. ROGERS: 8 So what is this information? This is a listing of filter-related device 10 observations as defined by the American College of Radiology 01:29PM 11 and the Society For Interventional Radiology. It lists five 12 different types. And then it has a miscellaneous column. 13 it compares the data that were collected in the EVEREST study 14 with the classifications that both ACR and SIR have and divides 15 them into major and minor complications. 01:30PM 16 Q. And according to this table, how many patients in the 17 EVEREST study experienced a fracture? 18 Α. One. 19 Do you know if that patient was symptomatic or 20 asymptomatic? 01:30PM 21 I believe that patient was no symptoms. 22 MR. ROGERS: Let's go over to Page 408. And can we 23 pull out this chart, please? BY MR. ROGERS: 24

So Mr. Van Vleet, can you tell us what this chart is?

25

Q.

01:32PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 This is, again, device observations compared to what the 2 Society For Interventional Radiology standards are. 3 includes migration greater than two centimeters; embolization 4 which basically means when the filter, or part of the filter, 5 moves with the blood flow; filter fracture; and filter 01:31PM 6 penetration. 7 So in regard to filter fracture, how did that rate that was 8 reported in EVEREST compare to the SIR rate? 9 So the one patient presumably divided by the 82 patients 10 that had evaluable images equals 1.2 percent, and SIRs range 01:31PM 11 that they have published that would be expectable in these 12 populations is somewhere between 2 and 10 percent. 13 Let's go on to Page 797, please. 14 MR. ROGERS: And would you mind pulling that out, the 15 table? 01:31PM 16 BY MR. ROGERS: 17 And Mr. Van Vleet, can you describe for the jury, please, 18 what this table represents? 19 This is a listing or a summary of all of the 20 recorded movements in the EVEREST study in any patient. 01:32PM 21 When you say "recorded movements" what does that mean? Q. 22 So there is an independent evaluator that looks at images 23 and makes the determination if the device has moved since its 24 original implantation.

Down at the bottom it says: Movement greater than two

25

Q.

01:33PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 centimeters. Do you see that? 2 Yes. 3 So was there a particular definition of what migration was 4 defined at for this study? A. Yes. It was based on the SIR recommendation that a 5 01:32PM 6 movement of greater than two centimeters be considered to be actually significant. 7 8 Q. And the other ones that are above movement greater than two 9 centimeters, those are all less than two centimeters of 10 movement? 01:32PM 11 Those are all expressed in millimeters. 12 Was all this information provided to FDA? 13 Α. Yes. 14 Mr. Van Vleet, were the results of the EVEREST study 15 published in the medical literature? 01:33PM 16 Α. Yes, they were. 17 And can we pull up Exhibit 6892. 18 And do you have that exhibit on your screen? I do. 19 Α. 20 And tell the jury what it is, please. 01:33PM 21 It's -- I will read the title of the paper, which is 22 the Technical Success and Safety of Retrieval of the G2 Filter 23 and a Prospective Multicenter Study. And this was published in 24 Journal of Vascular and Interventional Radiology which is the

journal for the Society of Interventional Radiology in 2009.

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
              MR. ROGERS: Your Honor, at this time I move Exhibit
 2
     6892 into evidence.
 3
              MR. CLARK: Your Honor, I think he's touched the basis
 4
     for 803.18 but nothing more.
 5
              THE COURT: Your response?
                                                                       01:33PM
              MR. ROGERS: Your Honor, I'm admitting it not for the
 6
     truth of the matter but notice to the medical community and the
 7
 8
     information that was provided about the G2 Filter and the
 9
     results of this study within the greater community for doctors
10
     who used these types of devices.
                                                                       01:34PM
11
              THE COURT: Counsel, let's talk about that for a
12
     minute.
13
              If you want to stand up, Ladies and Gentlemen.
14
              (Discussion was had at sidebar out of the hearing of
15
     the jury:)
                                                                       01:34PM
16
              THE COURT: Why is notice to the medical community
17
     about the G2 relevant?
18
              MR. ROGERS: Well, Your Honor, the jury's heard a lot
19
     of evidence how the Eclipse is nothing but the G2 that's been
20
     electropolished. And, of course, the plaintiff's contention in 01:34PM
21
     this case is the electropolish really didn't do anything.
22
     think that we would like to be able to show, you know, what the
23
     information in the medical literature was about the G2.
24
              THE COURT: Well, but that sounds to me like it's for
25
     the truth of the matter asserted. You would like to show what
                                                                       01:34PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
     the medical literature said about the complication rates on the
 2
     G2.
 3
              MR. ROGERS: Let me rephrase, Your Honor. What was
     the information that was available to the doctors.
 4
              THE COURT: My question is: Why is that relevant?
 5
                                                                       01:35PM
     Why is notice to doctors about the G2 independent of the truth
 6
 7
     of the matter asserted relevant in this case?
 8
              MR. ROGERS: Your Honor, I don't have a better answer
 9
     so if that's where we are, you want me to move on?
10
              THE COURT: No. My ruling, then, is this really is
                                                                       01:35PM
11
    being offered for the truth of the matter asserted.
12
     going to sustain the objection to admission but you can use it
13
     under 803.18. I think you didn't have an objection to that.
14
                          I agree with that.
              MR. CLARK:
15
              THE COURT: So you can read portions in but we can't
                                                                       01:35PM
16
     admit the document.
17
              MR. ROGERS: Sure.
                                  Thank you, Your Honor.
18
              (In open court.)
19
              THE COURT:
                          Thank you, Ladies and Gentlemen.
    BY MR. ROGERS:
20
                                                                       01:35PM
21
         Mr. Van Vleet, I'm going to get you to provide the jury
22
     some information that's contained in this document.
23
              Do you see it?
24
     Α.
         Yes.
25
     Q.
         And the results section that is there in front of you, can
                                                                       01:35PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 you tell the jury if that matches the information that was in the clinical study that was provided to FDA? 2 3 Α. Yes. 4 And so does this article report information from the 5 EVEREST study about fracture, migration, penetration, and tilt? It does. 6 7 So is that information available in the medical literature? 8 Α. Yes. 9 MR. ROGERS: Let's move on to Exhibit 5339, please. And, Your Honor, may I publish? It's in evidence. 10 01:36PM 11 THE COURT: Is that 539? 12 MR. ROGERS: 5339. 13 THE COURTROOM DEPUTY: Yes, it's in. 14 THE COURT: Yes. You may publish. 15 BY MR. ROGERS: 01:36PM 16 Mr. Van Vleet, what is this document? 17 This is a letter from the FDA to the regulatory 18 correspondent at Bard informing them that the FDA has 19 considered the device in question to be substantially 20 equivalent, or in other words, they have cleared the device for 21 commercial distribution. 22 Q. And would that be commercial distribution with a labeled 23 indication as a retrievable filter? 24 Α. Yes. 25 Q. So let's move forward, Mr. Van Vleet, to some additional 01:37PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct— 1 documents. 2 MR. ROGERS: And how about pull up 5354. 3 And, Your Honor, this document is already in evidence. 4 May we publish? 5 THE COURT: Yes. 01:37PM BY MR. ROGERS: 6 7 Q. Mr. Van Vleet, can you describe for the jury what this 8 document is? 9 A. Yeah. It's the cover page from another application to FDA. 10 This would be a special 510(k). 01:37PM 11 Q. And what in this particular 510(k) was FDA asking -- or 12 excuse me -- was Bard asking FDA to clear? 13 A. I have to -- oh. Change, I believe, in the delivery 14 system. 15 Q. And let's go to Exhibit 5353. 01:37PM 16 Your Honor, may we publish? This is in evidence. THE COURT: You may. 17 18 BY MR. ROGERS: 19 Mr. Van Vleet, what is this document? 20 This appears to be the clearance letter from FDA clearing 01:38PM 21 the previous application. 22 Q. And would this be the third time that the FDA has cleared a 23 product that's related to the G2 Filter? 24 Α. I believe so. 25 MR. ROGERS: How about let's move to Exhibit 5361. 01:38PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 And, Your Honor, may we publish? This is in evidence. THE COURT: 2 You may. 3 BY MR. ROGERS: 4 Mr. Van Vleet, what's this document? It is another submission to the FDA, a special 510(k) 5 01:38PM submission for the G2 Filter system and some modification to 6 the delivery kit. 7 8 MR. ROGERS: And may we pull up 5362. 9 And, Your Honor, may we publish this which is also in 10 evidence? 01:39PM 11 THE COURT: Yes. BY MR. ROGERS: 12 13 Q. And Mr. Van Vleet, was the application that we saw just a 14 moment ago, was that also cleared by FDA? 15 Yes. This is the clearance letter clearing that 01:39PM 16 application. 17 Q. And was that the fourth clearance that the FDA had done on 18 the G2 Filter? 19 A. I believe so. 20 Q. All right. Mr. Van Vleet, how about tell us what the G2 01:39PM 21 Express Filter is. 22 The G2 Express was the inclusion of a hook at the apex of 23 the filter to enable it to be retrieved with a snare. 24 Q. Did Bard submit a 510(k) application to the FDA for the G2 25 Express for clearance? 01:39PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	A. Yes.	
2	MR. ROGERS: Can we pull up Exhibit 5373.	
3	And, Your Honor, may we publish? That's also	
4	admitted.	
5	THE COURT: Yes.	01:40PM
6	BY MR. ROGERS:	
7	Q. Mr. Van Vleet, is this the 510(k) application?	
8	A. This is the 510(k) requesting clearance for the addition of	
9	a hook onto the apex.	
10	Q. Was this submission ultimately cleared?	01:40PM
11	A. Yes.	
12	MR. ROGERS: And can we pull up 5368. Your Honor, may	
13	we publish?	
14	THE COURT: Yes.	
15	BY MR. ROGERS:	01:40PM
16	Q. Mr. Van Vleet, was this the letter from FDA clearing that	
17	application for the G2 Express?	
18	A. Yes, it is.	
19	MR. ROGERS: How about let's go to 5379.	
20	And, Your Honor, may we publish? This is in evidence.	01:40PM
21	THE COURT: Yes.	
22	BY MR. ROGERS:	
23	Q. Mr. Van Vleet, is this another application for the G2	
24	Express?	
25	A. Yes, it is.	01:40PM

2024 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct— 1 0. And what is this for? This is, I believe, for a modification of the delivery 2 3 system G2 Express. 4 MR. ROGERS: And can we go to Exhibit 5376? 5 Your Honor, may we publish? It's in evidence. 01:41PM THE COURT: Yes. 6 7 BY MR. ROGERS: 8 Q. Mr. Van Vleet, was this particular application cleared by the FDA? 10 A. Yes. This is the clearance letter from FDA. 01:41PM 11 Q. Was that the sixth clearance we have seen for the G2 line of filters? 12 13 A. Yes. 14 Okay. Let's turn our attention to the Eclipse Filter, if 15 you would, Mr. Van Vleet. 01:41PM 16 Were you personally involved with the regulatory 17 filings for the Eclipse Filter? 18 A. I was. So before Bard ever submitted a clearance application to 19 Q. 20 FDA for the Eclipse, did you have communications with the FDA? 01:41PM 21 A. Yes. 22 Q. And did you have communications with FDA about the Eclipse 23 Filter? 24 A. Yes.

Q. And can we pull up Exhibit 5593, please. 01:41PM

- 1 Mr. Van Vleet, do you have that on your screen?
- 2 A. Yes.
- 3 | Q. Can you tell us what this is, please?
- 4 A. This is meeting minutes from a meeting held with our
- 5 reviewer at FDA. After the meetings are concluded FDA requests
- 6 that we submit to them a copy of our meeting minutes and then
- 7 they usually have some editorial comments and change some
- 8 things. And once they are agreed upon they are filed.
- 9 Q. In the second paragraph there's something referred to there
- 10 | called G2 Platinum. Do you see that?

01:42PM

01:42PM

- 11 A. Uh-huh.
- 12 | Q. Can you tell the jury what G2 Platinum is?
- 13 A. So I believe G2 Platinum was a project that was being
- 14 undertaken to terminally electropolish or provide a more
- 15 consistent surface finish on the G2 family of products.

01:42PM

01:42PM

01:43PM

- 16 Q. And did the G2 Platinum project make it anywhere, or did it
- 17 | kind of get scrapped?
- 18 A. No. It ended up being scrapped because it was not feasible
- 19 to electropolish it given some of the constructs of it.
- 20 Q. So if we go to Page 2 of this document, and up at the top
- 21 | there in that paragraph, do you see where it references caudal
- 22 | anchors?
- 23 A. Yes.
- 24 Q. And so what was being relayed to FDA about caudal anchors?
- 25 A. So simply that this would be the next upcoming project that

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 they would be seeing. We try always to provide FDA kind of a sense of the timing and what -- for them to be able to manage 2 3 their workload. 4 Q. And did the caudal anchors ultimately get added to the Bard filter? 5 01:43PM 6 Α. Yes. 7 Was that in a filter called the Meridian Filter? 8 Α. Yes. 9 Let's look down at the bottom of this document, please. 10 Mr. Van Vleet, do you see where it references laser cut filter 01:43PM 11 with caudal anchors? 12 A. Yes. 13 And what does that mean, laser cut? 14 So it would be a product that is cut out of a tube, in this 15 case Nitinol, nickel titanium, via laser, basically carved 01:44PM 16 through a laser cut, single construct. One solid state. 17 And did Bard ultimately introduce into the marketplace a 18 laser cut filter? 19 Α. Yes. 20 Q. And which filter is that? 01:44PM 21 That's the Denali Filter. Α. 22 Is that the filter that's on the market currently? Ο. 23 Yes, it is. Α. 24 And so is this information about projects involving caudal

01:44PM

anchors and potentially laser cutting a filter, was it all

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 provided to FDA before the application for the Eclipse Filter 2 was cleared? 3 Α. Yes. 4 Let's pull up Exhibit 5612, please. 5 Mr. Van Vleet, do you have that on your screen? 01:44PM I do. 6 Α. 7 Can you tell the jury, please, what this document is? 8 This is, again, meeting minutes. We called them FDA 9 contact reports. 10 Does this reflect additional communications between Bard 01:45PM and the FDA regarding the Eclipse project? 11 12 A. Yes, it does. 13 So let's move on to Exhibit 5272. 14 MR. ROGERS: Your Honor, may we publish? This is in 15 evidence. 01:45PM THE COURT: 16 Yes. 17 BY MR. ROGERS: 18 Mr. Van Vleet, can you tell the jury what this is? 19 This is the cover page for a special 510(k) Α. 20 submission requesting FDA to clear the Eclipse Filter system. 01:45PM 21 And can you go to Page 2 of the document. 22 And can you just describe generally for the jury what 23 types of information was provided about the Eclipse Filter to 24 FDA in this application?

01:45PM

So this would include the summary of all of the testing,

01:46PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 identification of the materials, any change to a process of 2 manufacturing, just a comprehensive listing of anything that 3 would have changed from the predicate device. 4 Q. And would this application also include a draft IFU, or 5 Instructions For Use, for the Eclipse? 01:46PM 6 Yes. And to your knowledge, did FDA ask for additional or 7 8 different warnings regarding the Eclipse IFU? 9 I don't believe they did. 10 Q. Can you pull up Exhibit 5273, please. 01:46PM 11 MR. ROGERS: Your Honor, may we publish? This is in 12 evidence. 13 THE COURT: Yes. 14 BY MR. ROGERS: 15 Mr. Van Vleet, what is this? 01:46PM 16 A. This is the letter from the FDA clearing the Eclipse 510(k) 17 submission. 18 Q. And once Bard received this letter from FDA clearing the 19 Eclipse Filter, was that sort of the green light where Bard 20 could start to market the device? 01:46PM 21 A. Yes. 22 Q. And let's move on to -- let's see. Well, let me ask you a 23 couple questions first. 24 Did Bard submit an additional 510(k) to FDA regarding

25

the Eclipse Filter?

- 1 A. Yes. I believe there was a follow-up submission including
- 2 a patient brochure and an implant card.
- 3 Q. Would you pull up Exhibit 5586.
- 4 MR. ROGERS: And, Your Honor, may we publish? This is
- 5 in evidence.

01:47PM

- 6 THE COURT: Yes.
- 7 BY MR. ROGERS:
- 8 Q. And Mr. Van Vleet, is this the second application that
- 9 relates to the Eclipse Filter?
- 10 A. Yes.

01:47PM

- 11 | Q. And tell us, if you would, what was the purpose of this
- 12 | second submission?
- 13 A. I would have to take a look at it, but I think that was
- 14 adding the patient brochure and the implant card.
- 15 Q. Let's go to Page 78 of the document.

01:47PM

- 16 A. Yes.
- 17 Q. And if you look through 78, and -- well, yeah.
- 18 MR. ROGERS: Are you going to make that bigger there
- 19 | Scott?
- 20 Thank you.

01:48PM

- 21 BY MR. ROGERS:
- 22 | Q. So Mr. Van Vleet, tell the jury what this is.
- 23 A. This is an informational card for patients receiving the
- 24 | Eclipse Filter.
- 25 Q. And can you go to the next page?

01:48PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct

1 Was this also part of that same card?

- 2 A. Yeah. It's a tri-fold or quad-fold brochure. It's about
- 3 | this shape and it all folds up against itself.
- 4 Q. And how was this card and other information supposed to be
- 5 delivered with the Eclipse Filter?

01:48PM

01:48PM

- 6 A. It was kangaroo pouched on the outside of the package as an
- 7 added piece of information.
- 8 Q. And what do you mean be by kangaroo pouched?
- 9 A. So it was included in a pouch, or an envelope, a clear
- 10 | plastic envelope stuck to the outside of the package so the
- 11 | physician and the staff would know that it needs to be
- 12 associated with that package.
- 13 | Q. So it's literally on the external part of the box that the
- 14 delivery system comes in?
- 15 A. Correct.

01:49PM

- 16 Q. Can we go to Exhibit 5587.
- 17 MR. ROGERS: And, Your Honor, this is in evidence.
- 18 May we publish?
- 19 THE COURT: Yes.
- 20 BY MR. ROGERS:

01:49PM

- 21 | Q. And Mr. Van Vleet, can you tell us what this letter is?
- 22 A. This was a response to the 510(k) for the inclusion of the
- 23 | patient brochure and implant card. And it's what we call an
- 24 additional inquiry letter so FDA had questions about the
- 25 submission.

01:49PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	Q. So what was the question that FDA was raising?	
2	A. Number one talks about in the patient brochure, the	
3	question is: When can the filter be removed? And the	
4	statement that was proposed initially was: The Eclipse Vena	
5	Cava Filter does not have a time in which it must be removed.	01:50PM
6	So FDA was questioning that because they felt that Bard had not	
7	provided clinical data to support the statement. And then it	
8	pulled out the data that was submitted from the EVEREST study	
9	on 58 patients with a mean retrieval time of 140 days. And	
10	that was observational data. I'm trying to read their mind at	01:50PM
11	this point in time.	
12	But they felt that that was not sufficient to	
13	substantiate the statement that the filter does not have a time	
14	limit for retrieval.	
15	Q. And did Bard respond to this letter?	01:50PM
16	A. Yes.	
17	MR. ROGERS: Could be pull up Exhibit 5488?	
18	Your Honor, may we publish?	
19	THE COURT: Yes.	
20	BY MR. ROGERS:	01:50PM
21	Q. And Mr. Van Vleet, is this Bard's response to FDA?	
22	A. Yes.	
23	Q. Can we go to Page 6 of that document.	
24	MR. ROGERS: And can we pull out the section about the	
25	patient brochure up at the top? Thank you.	01:51PM

2032 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct— BY MR. ROGERS: 1 And so Mr. Van Vleet, what was -- well, this is the actual 2 3 question from FDA, correct? 4 A. Correct. Q. And so let's look down below that, please. And so what did 01:51PM 5 Bard respond to as far as this question is concerned? 6 7 A. So the patient brochure was revised, and the section on 8 when can the filter be removed was actually taken out of the 9 patient brochure. And was the patient brochure application cleared by FDA? 10 01:51PM 11 A. Yes. 12 Q. And can we pull up Exhibit 5589. 13 MR. ROGERS: Your Honor, may we publish? This is in 14 evidence. 15 THE COURT: Yes. 01:52PM BY MR. ROGERS: 16 17 Q. Mr. Van Vleet, is this the letter from FDA clearing the 18 510(k) application for the patient brochure? 19 A. Yes. 20 Q. Can we pull up now Exhibit 8362. 01:52PM 21 And Mr. Van Vleet, can you tell us what this is, please?

22

23 That is a copy of the patient brochure for the Eclipse Vena

24 Cava Filter.

25 Q. And is this the version that FDA cleared? 01:52PM

01:54PM

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
         I believe so.
                        There's usually a little code number at the
    bottom that tells us it's the final version.
 2
 3
     Q. And Mr. Van Vleet, we can flip to the back page if you want
     to see it. I'm not sure if it's there.
 4
 5
              MR. ROGERS: Is there a second page there, Scott?
                                                                       01:52PM
                                  I believe this is the final.
 6
              THE WITNESS: Yes.
 7
              MR. ROGERS: And Your Honor, at this time I move
 8
     Exhibit 8362 into evidence.
 9
              MR. CLARK: Objection, relevance. No evidence that
10
     Mrs. Jones received this brochure.
                                                                       01:53PM
11
              THE COURT: Overruled. 8362 is admitted.
12
              MR. ROGERS: Can we go back to the first page,
13
    please.
14
    BY MR. ROGERS:
15
         And before we actually get into the actual language of this
16
    brochure, Mr. Van Vleet, why did Bard decide to create this
17
    patient brochure for the Eclipse Filter?
18
         So upon conversations with FDA we were asked to create this
19
     for informing the patients. And the requirement, generally
20
     speaking, for many if not most implantable devices is that
                                                                       01:53PM
21
     there is a specific brochure that's targeted toward the patient
22
     that provides information about the case, the device, any
23
    potential risks with the device, and it has to be written at a
24
     level that a non-medical person can understand.
25
```

And was there any intention with this brochure to do

Q.

2034 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 something in order to -- that would change the relationship 2 between the patient and the doctor who may implant one of these 3 devices? 4 Α. No. Q. Okay. So let's take a look at, I guess this generally. 5 So 01:54PM 6 on this first page is there some general information about 7 pulmonary embolism? 8 Α. Yes. 9 Are there also information about alternative treatments for 10 pulmonary embolism besides an IVC filter? 01:54PM 11 A. Yes. 12 In the middle there, where there's a question, what is a 13 vena cava filter? Do you see that? 14 Α. Yes. 15 Does that provide the patient some information and a 01:54PM 16 picture of a vena cava filter? 17 A. Yes, it does. 18 And then over on the right-hand side, is there information 19 about the implant procedure itself? 20 Α. There is. 01:54PM 21 And can we go to the next page, please. Q. 22 And in this portion, starting, I guess, over on the 23 left-hand side, that first column of writing where it says 24 "after the procedure," do you see that?

25 Α. Yes. 01:55PM

2035 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 And does this provide some information about what the 2 patient may expect? 3 Α. Yes, it does. 4 And then it looks like in the middle column there is a 5 column there that says, "What are the risks associated with 01:55PM implantable filters." Do you see that? 6 7 A. Yes. 8 MR. ROGERS: And let's go down to the section -- just 9 pull the whole thing out, if you would, please, Scott. 10 you. 01:55PM 11 Looking at the bullet point that's the next to the last one on the page, can you pull that out, please? 12 13 BY MR. ROGERS: 14 Mr. Van Vleet, what does that paragraph state? 15 I will just read it: The entire filter or pieces of 16 the filter may break loose and travel to the heart or lungs 17 causing injury or death. You may need to have additional 18 surgery to retrieve the filter or pieces if they break loose. 19 Q. And what was the reason to include that information in the 20 brochure for the patient? 01:56PM 21 Well, it's, number one, fair balance. You can't simply say 22 anything that's just good about a device. You have to also be 23 very transparent about any risks the device had. And these 24 complications are events that have been known either from the

literature to occur in cases where people use IVC filters or if | 01:56PM

2036 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 there were specific studies on the filter they would be derived 2 from the studies, adverse event listing of the studies. 3 MR. ROGERS: Scott, would you take that down. Pull 4 out the section that's on the top right, "Does the filter have 5 to be removed." 01:57PM BY MR. ROGERS: 6 7 Q. And Mr. Van Vleet, is this the section we were discussing 8 earlier where there was a back-and-forth with FDA about what 9 sort of information should be provided in regard to the answer 10 to this question? 01:57PM 11 Α. Yes. 12 And does this reflect the change that FDA wanted to make? 13 Α. Yes. 14 So what's the information that was ultimately provided to 15 the patient in this brochure about does the filter have to be 01:57PM 16 removed? 17 The answer that is provided is: No, the Eclipse Vena Cava 18 Filter is designed to be a permanent implant and does not have 19 to be removed, repositioned, or replaced. However, in the 20 cases where the risk for pulmonary embolism is temporary, your 01:57PM 21 physician may choose to remove the filter. You should discuss 22 filter removal with your physician. There's a typo. 23 Thank you, Mr. Van Vleet. Q. 24 MR. ROGERS: You can take that down. You can take the

01:57PM

25

whole thing down.

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 BY MR. ROGERS: Let's talk for a little bit about the IFU that was provided 2 3 with the Eclipse Filter. And how does the IFU differ from what 4 we just looked at, which was the patient brochure? 5 A. The IFU is targeted toward the physician. So the way the 01:58PM 6 description is written would be more at a higher technical medical level. It also is much more comprehensive. And there 7 8 are specific sections to the Instructions For Use that are 9 required by FDA. So it's essentially a negotiation or a 10 conversation with FDA, and FDA has the ultimate authority on 01:58PM 11 what must be included in an IFU. 12 What was your role in the preparation of the IFU that 13 accompanied the Eclipse Filter? 14 A. I would have to review and approve anything going to the 15 FDA. 01:58PM 16 MR. ROGERS: And can we pull up Exhibit 8235? 17 And, Your Honor, may we publish this? It's in 18 evidence. 19 THE COURT: Yes. 20 BY MR. ROGERS: 01:59PM 21 Mr. Van Vleet, is this a copy of the IFU, at least a cover 22 page for the IFU? 23 For the Eclipse Vena Cava Filter, yes. 24 MR. ROGERS: Let's go to Page 4, please. Scott, would 25 you pull out the section there that -- Yeah. Part E. Do you 01:59PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 see that? BY MR. ROGERS: 2 3 Mr. Van Vleet, what is this section? 4 This is the warning section which is a required section in any IFU. And it includes a listing of any relevant event or 5 01:59PM any relevant knowledge about the performance of the device that 6 the physician should know. 7 8 Q. And can we pull out Number 11, please. 9 And Mr. Van Vleet, was this -- what's up on the screen 10 now, is that in the warnings portion of the IFU? 01:59PM 11 It is. Α. 12 Would you read that for the jury, please? 13 A. Filter fractures are a known complication of vena cava 14 There have been some reports of serious pulmonary and 15 cardiac complications with vena cava filters requiring the 02:00PM 16 retrieval of the fragment utilizing endovascular and/or 17 surgical techniques. 18 Q. What was the purpose of including this information in the 19 IFU? 20 A. It was one of the known complications of IVC filters. And 02:00PM 21 part of the requirements for the Instructions For Use is that 22 all known risks surrounding the use of a device be included. 23 MR. ROGERS: And Scott, would you take that down and 24 pull out the next section, Number 12, please. 25 BY MR. ROGERS: 02:00PM

02:01PM

02:01PM

02:01PM

02:01PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

- 1 Q. Mr. Van Vleet, would you read Number 12 for the jury?
- 2 A. Movement migration or tilt of the filter are known
- 3 complications of vena cava filters. Migration of the filters
- 4 to the heart or lungs has been reported. There have also been
- 5 reports of caudal migration of the filter. Migration may be
- 6 caused by placement in IVCs with diameter exceeding the
- 7 appropriate labeled dimension specified in this IFU. Migration
- 8 may also be caused by proper deployment, deployment into clots,
- 9 and/or dislodgement due to the large clot burdens.
- 10 Q. What was the purpose of including this information in the
- 11 | warning section of the IFU?
- 12 A. Again, just a continuing need to make sure that any known
- 13 | complications for these types of devices are being
- 14 appropriately represented to the physicians using them.
- MR. ROGERS: Scott, can you take that down and go to
- 16 the next page. And up at the top, can you pull out the Part G?
- 17 | Section G? Thank you.
- 18 BY MR. ROGERS:
- 19 Q. Mr. Van Vleet, do you see up at the top where it says
- 20 | "potential complications"?
- 21 A. Yes.
- 22 Q. How does this section in an IFU about complications differ
- 23 | than a section about warnings?
- 24 A. It's more detailed, I think, and it also would include any
- 25 observed complication, again, combed from the literature but

02:02PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Directit's just kind of a listing of each individual complication. 1 Q. And do the first bullets --2 MR. ROGERS: Can you pull those out, please, Scott. 3 4 BY MR. ROGERS: 5 Q. Do those first two bullets that are there, do they match 02:02PM 6 what had been provided in the warning section? 7 A. Yes. I believe it's the same warning. 8 Q. Okay. So let's go down to the next bullet below those two. 9 And Mr. Van Vleet, can you read that for the jury, 10 please? 02:02PM 11 A. Perforation or other acute or chronic damage of the IVC 12 wall. 13 MR. ROGERS: And how about scroll on down a little 14 ways below, little more. And down right, it's just coming up 15 there. And can you highlight that bullet? 02:03PM 16 BY MR. ROGERS: 17 And Mr. Van Vleet, what does that say? 18 A. Filter tilt. Q. And so were perforation and tilt also provided as potential 19 20 complications in the information in the IFU about the Eclipse 02:03PM 21 Filter? 22 A. Yes, they were. 23 MR. ROGERS: And let's go on down to Figure 6. You 24 pull that down. This is the clinical studies section.

Next page. Here we go.

25

02:03PM

02:04PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-BY MR. ROGERS: 1 Q. Do you see that there where it says "clinical experience"? 2 3 Mr. Van Vleet, describe for us, if you would, what is 4 this portion of the IFU? A. So in the case that devices have had clinical data 5 02:03PM 6 submitted as part of the application, there's a required 7 summary of the overall results of whatever study was performed. 8 And this is a summary of the clinical data. And was this the clinical data for the EVEREST study? 10 A. Yes. 02:04PM 11 MR. ROGERS: And can you scroll down a little bit, 12 please, Scott. And so in this section here that starts right 13 above the bolded language, can you pull that out, that 14 sentence, where it begins, "asymptomatic complications." BY MR. ROGERS: 15 02:04PM 16 And Mr. Van Vleet, what is this? 17 This is a summary of complications that didn't have any 18 symptoms. 19 And was this information provided in every IFU that 20 accompanied the Eclipse Filter? 02:04PM 21 Α. Yes. MR. ROGERS: All right. You can pull that down. 22 23 BY MR. ROGERS: 24 Q. Mr. Van Vleet, I want to kind of change our attention and

talk some more about sort of any additional communications you

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 had with the FDA. 2 MR. ROGERS: And can we pull up Exhibit 5602. 3 And, Your Honor, this is, I believe, was one of the 4 documents that we agreed would be admitted in evidence but 5 there's a redaction issue so I'm not going to publish this. 02:05PM BY MR. ROGERS: 6 Q. And Mr. Van Vleet, can you describe for the jury what this 7 8 is, please? 9 This is another FDA contact report, basically meeting 10 minutes or a description of a meeting with Bard personnel and 02:05PM 11 FDA personnel. 12 Can you tell from this who requested the meeting? 13 I can't tell from this specific page, but I do know that I 14 requested the meeting. 15 Well, let me, I guess, orient the jury a little bit more. 02:05PM 16 So what's the date of this document? 17 Α. January 7th, 2010. 18 And so would this have been before or after the Eclipse 19 Filter had been cleared? 20 Α. This would be after. I would have to go back to the dates, 21 I'm sorry. I think it's --22 Q. Okay. 23 Actually it's before. It was a short period of time

Okay. And can you describe generally what the purpose of

02:06PM

24

25

Q.

before, maybe 15 days before.

02:07PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 this meeting was? Sure. So I will read from the subject here. It says: 2 3 Recovery G2, G2X fractures and Nicholson publication slash 4 presentation. So Bard had become aware of a meeting at which a 5 cardiologist had presented the results of a study that he 02:06PM conducted at his institution that had a variety of 6 complications at rates that were very different than had been 7 8 previously observed in Bard's or anybody else's filters. And 9 we had experienced a challenge in collecting the detail behind 10 this. You have to make a reasonable effort to report 02:06PM 11 everything. And I believe there were 15 different attempts at 12 collecting the data on these reported or alleged complications 13 and we had not been successful. 14 So part of it, I think, was hoping the FDA might reach 15 out directly to the physician and ask him to please provide the 02:07PM 16 requested information. 17 When you were describing the 15 separate attempts to try 18 and contact Dr. Nicholson, what types of things did Bard do to 19 try and get additional information from Dr. Nicholson? 20 Technically, attempt could be something as simply as 21 an e-mail or a telephone call. But I do know in this case that 22 at least six of the attempts were made directly in person at 23 the hospital. 24 And so if you look up at the top of this document, did the

meeting take place in January of 2010?

	2044	
1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	A. Yes. January 7th.	
2	Q. And was this before the Nicholson study had actually been	
3	published?	
4	A. This was before the Nicholson study had been published.	
5	Q. And how many folks from the FDA attended this meeting?	02:07PM
6	A. About 10, a dozen, maybe.	
7	Q. And how many people from Bard attended the meeting?	
8	A. 10.	
9	Q. And from looking at the list of names of the FDA	
10	participants, are several of those individuals medical doctors?	02:08PM
11	A. Yes.	
12	Q. And at this particular meeting, was the focus exclusively	
13	the Nicholson study?	
14	A. That was the reason, the stated reason for meeting. But it	
15	was just to discuss just in general the yeah. I think that	02:08PM
16	was the main reason for the meeting, but there was a lot of	
17	data, additional data, that was presented to the FDA.	
18	Q. Was a PowerPoint presentation given to FDA?	
19	A. Yes.	
20	MR. ROGERS: And can we pull up Exhibit 5942.	02:08PM
21	And, Your Honor, may we publish? This has been	
22	admitted.	
23	THE COURT: You may.	
24	BY MR. ROGERS:	

Q. Mr. Van Vleet, is this the entire PowerPoint presentation

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 that was given to the FDA in January of 2010? 2 Yes. 3 If we go over, I guess, to Page 6, please. And was this 4 some information that was presented to FDA? 5 Α. Yes. 02:09PM Q. So why did you discuss risks of pulmonary embolism with 6 7 FDA? 8 So while several, probably half of the reviewers were 9 medical doctors, many of the reviewers and the other personnel 10 present would be engineers. And it's really important that 02:09PM 11 everybody kind of understands the medical purpose for the use 12 of the device. So this is more of a background slide. 13 Q. Let's go over to Page 9. And Mr. Van Vleet, what type of 14 information is this, and why was it presented to FDA? 15 So with any decision FDA makes, they look at things in 02:09PM 16 terms of risk and benefit. And so this had some of the 17 benefits associated with it. Presumably there's another one 18 with the risks. 19 MR. ROGERS: Let's move over to Page 19, please. And 20 pull that out. 02:10PM 21 BY MR. ROGERS: 22 And what is this? Ο.

This is our summary of what we had learned from the presentation by a cardiologist at York Hospital.

23

24

25 Q. You say a presentation. Do you know what the context of 02:10PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct

- 1 | the presentation was?
- 2 A. Sure. This is a meeting that's hosted, I believe, on a
- 3 | monthly basis by a cardiologist in Washington, D.C. It's kind
- 4 of like a grand rounds meeting where people will come present
- 5 interesting information or different information to their
- 6 medical peers.
- 7 MR. ROGERS: Let's go to Page 21. And pull that out,
- 8 please.
- 9 BY MR. ROGERS:
- 10 Q. And Mr. Van Vleet, what is this information?
- 11 A. So this is kind of a walk-through to the FDA of the steps
- 12 that we took as soon as we became aware of this information
- 13 from Dr. Nicholson.
- 14 Q. And with that last bullet it says: 13 additional attempts
- 15 to gather details. Do you see that?

02:11PM

02:10PM

02:10PM

- 16 A. Yes.
- 17 Q. Why were you telling FDA that information?
- 18 A. Well, number one, to make sure that they understood that we
- 19 | had followed through and tried to get the information that they
- 20 request us to submit on that. But also hopefully they would
- 21 | maybe reach out on our behalf and try to help us obtain this
- 22 information.
- 23 Q. And can we go to Page 28 -- or excuse me -- 26 of the
- 24 document.
- MR. ROGERS: Would you pull that out?

02:11PM

02:11PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 BY MR. ROGERS: 2 Mr. Van Vleet, was this information presented to FDA? 3 A. Yes. 4 And describe for the jury, please, what this information 5 is. 02:11PM This is a listing of all the fractures for the Bard filters 6 7 that were known to the company or reported by anybody to the 8 company. 9 Q. And how about let's move on to Page 28. And pull that out. 10 And Mr. Van Vleet, can you describe for us what this 02:12PM 11 information is? 12 A. So this is a summarization of the studies that have been 13 conducted by other IVC filter manufacturers in support of their 14 applications to FDA. 15 Q. And was this information reviewed with FDA as part of this 02:12PM 16 meeting? 17 A. Yes. 18 MR. ROGERS: Let's move on to Page 34. And pull that 19 out. 20 BY MR. ROGERS: 02:12PM Q. And what is this information? 21 22 This was a summary of all of the migrations for Bard 23 filters from 2005 forward that were known to the company or 24 reported to the company.

MR. ROGERS: You can take that down, Scott.

02:12PM

Case 2:15-md-02641-DGC Document 11408 Filed 06/08/18 Page 56 of 138 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 you. BY MR. ROGERS: 2 3 Q. Mr. Van Vleet, following this meeting, what was the result? Did it lead to some sort of path or something of that nature? 4 I think the discussions continued, but I think our attempt 5 02:13PM or our desire in having this meeting is, are we doing something 6 7 that -- or are we not doing something that you think we should 8 be doing? Is there another step that you think is appropriate 9 for Bard to take given the things that had been said? And we 10 felt that there was resolution at that meeting. 02:13PM 11 Q. Let me change gears on you, Mr. Van Vleet. Are you 12 familiar with something called FDA down-classification? 13 Α. Yes. 14 And can you tell the jury what that is, please? 15 So FDA has, at times, moved to change the classification of 16 a device. Essentially there are three types of device 17 classification: Type I, Type II, and Type III in the United 18 States classification system. Type I is something maybe as 19 simple as a cane or perhaps a Band-aid. Type II in this case 20 would be a filter, certain types of stents, balloon 02:14PM 21 angioplasty. Type III are generally implantable devices that

02:14PM

Q. When you were working at C.R. Bard on IVC filters, did you

require a more comprehensive level of data to be provided.

a down-classification by definition is when FDA lowers the

classification of a device.

22

23

24

	2049	
	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	come to learn that the FDA had down-classified IVC filters?	
2	A. Yes.	
3	Q. And can you tell us what the change in class was?	
4	A. Sure. I believe this happened in 1996, and the panel of	
5	physicians that review these types of applications requested	02:14PM
6	that this be down-classified from a Class III to Class II.	
7	Q. And since that time, have you learned that there was an FDA	
8	memo from 1996 regarding the down-classification of IVC	
9	filters?	
10	A. Yes.	02:15PM
11	Q. Can I pull up Exhibit 5877, please.	
12	Mr. Van Vleet, you have on your screen Exhibit 5877.	
13	Is that the memo that you were referring to?	
14	A. Yes.	
15	MR. ROGERS: Your Honor, at this time I would move	02:15PM
16	5877 into evidence.	
17	MR. CLARK: Objection, Your Honor. Cumulative. Also	
18	if you look on Pages 8 and 9 it appears to be a draft of some	
19	sort. This is not a Bard document.	
20	THE COURT: Let's address this for a minute at	02:15PM
21	sidebar, counsel.	
22	Feel free to stand up.	
23	(Discussion was had at sidebar out of the hearing of	
24	the jury:)	
25	THE COURT: What are you talking about?	02:15PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-

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1
              MR. CLARK: For one thing, Your Honor, this appears to
    be a draft of some sort. There are handwritten edits,
 2
 3
     highlights, things like that. We also don't have -- this is
 4
     not a Bard document. So again, not knowing that this is a
 5
     final publication.
                                                                      02:16PM
 6
              THE COURT: Your objection besides cumulative is what?
 7
              MR. CLARK: It's not the authentic, final version of
 8
     what went out to the public. It's also hearsay, Your Honor.
 9
     don't think it can be established as a business record.
10
              THE COURT: As a what?
                                                                      02:16PM
11
              MR. CLARK: As a business record or regularly
12
     conducted activity.
13
              MR. ROGERS: Your Honor, this is a certification we
     have gotten from the FDA via FOIA service which contains the
14
15
    memorandum here that certifies that this document did come from
     FDA.
16
17
              THE COURT: Hold on just a second.
18
              So my question is under Rule 902.1, is this a seal of
19
     the United States? That's what you are asserting?
20
              MR. ROGERS: 902.1.
                                                                      02:17PM
21
                          I'm just trying to understand how you are
              THE COURT:
22
     wanting to use this certificate at the beginning.
23
              MR. ROGERS: Yes, Your Honor. I would say this is a
24
     seal under 902.1 and that should address any issues about the
25
     authentication document.
                                                                      02:18PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct—

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1
              THE COURT:
                          Is there a signature?
 2
              MR. ROGERS: There is a signature here. I can't read
 3
     it upside down.
              THE COURT: Let me look at it. So this is a custodian
 4
     of records certificate. So in other words, what this is is a
 5
                                                                      02:18PM
     certificate confirming that this is a -- here's the affidavit.
 6
 7
     So it looks to me as though the affidavit of Katherine Uhl,
 8
     which is certified with a certificate on the front and
 9
     notarized states that it is a certified authentic copy of the
10
     records from the Food and Drug Administration.
                                                                      02:19PM
11
              So my question to you, Mr. Clark, is why is not that
12
     affidavit and the certificate sufficient to authenticate this
13
     as an FDA document?
14
                          I think that that affidavit and
              MR. CLARK:
15
     certificate is sufficient for authentication. I don't think it
16
     cures the hearsay problem.
17
              THE COURT: Well, if it's authenticated.
18
              MR. CLARK: We didn't have that seal, by the way.
19
    Apologize.
20
              THE COURT:
                          If it's authenticated as a government
                                                                      02:19PM
21
     document, then why doesn't 803.8 then apply? It's a record of
22
     a public office. It would seem to set out the office's
23
     activities.
                          I think it's Part 2 from information
24
              MR. CLARK:
25
     observed during their legal duty to report. This is an
                                                                      02:19PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct—
 1
     internal thing.
                          It can be any of those. Part A elements
 2
              THE COURT:
 3
     are disjunctive. It could can be 1, 2, or 3.
 4
              MR. CLARK: I think we're down to cumulative. You
 5
    persuaded me. Again, I didn't have the seal.
                                                                      02:20PM
                          That's fine. Why do you think it's
 6
              THE COURT:
 7
     cumulative? What it cumulative of?
 8
              MR. CLARK: We have had number of witnesses talk about
 9
     down-classification. We heard that from Tillman. We heard
10
     from his own testimony. So this document doesn't do anything
                                                                      02:20PM
11
    but pile on.
12
              THE COURT: What's your response?
13
              MR. ROGERS: Well, Your Honor, we attempted to put
14
     this document in with Dr. Tillman when she testified.
15
     objected. So the jury has not seen this document so I don't
                                                                      02:20PM
16
     think that this is cumulative. It is some new information
17
     about the down-classification process that the jury has not
18
     seen. And so I think it's just additional information that is
19
     new.
20
              THE COURT: Just so we have a clear record, my
                                                                      02:20PM
21
     understanding, Mr. Clark, from our discussion, cumulative is
22
     the only objection you are making to the document now?
23
              MR. CLARK: In reviewing it, I think there's a
24
     relevance issue, too, Judge, because we're talking about this
25
     is undisputed this is a Class II device the whole time.
                                                               The
                                                                      02:21PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
     implication that they are trying to draw is these things have
     been recognized by FDA that it's safer. I don't think that's
 2
 3
     an important part of the inquiry that's in front of this jury.
 4
              THE COURT: Okay. I'm going to overrule the relevancy
 5
     and cumulative objections. So I will admit the document.
                                                                        02:21PM
 6
              (In open court.)
 7
              THE COURT: Thank you Ladies and Gentlemen.
 8
              The objection is overruled, and Exhibit 5877 is
 9
     admitted.
     BY MR. ROGERS:
10
                                                                        02:21PM
         Mr. Van Vleet, do you have the document in front of you?
11
12
     Α.
         Yes.
13
         Have you had a chance to review this document?
14
     Α.
         Yes.
15
         If you would, let's turn to Page 4 of the document, please.
16
     And is this a section of the document that relates to known
17
     risks of IVC filters?
18
     Α.
         Yes.
         And if we move down to Section E, do you see Section E?
19
20
     Mr. Van Vleet, if you would, what did this memo that FDA
                                                                        02:22PM
21
     prepared about the down-classification of IVC filters, what
22
     information did it provide about the occurrence of filter
23
     migration?
24
         I will read directly from the document: The design of the
25
     filter must be such that it is stable within the vena cava.
                                                                        02:22PM
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02:23PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 The filter release mechanism that is part of the delivery system must be simple and controlled such that the filter is 2 3 deployed in the desired location and it is completely opened. 4 If it is not it can ultimately propagate into the right heart 5 or it may tilt such that its filtering efficiency is 02:22PM 6 compromised. 7 Q. Let me interrupt you, Mr. Van Vleet. 8 MR. ROGERS: Your Honor, may we publish? I don't 9 believe the jury has it on the screen. 10 THE COURT: Yes, you may. 02:23PM 11 BY MR. ROGERS: I'm sorry, Mr. Van Vleet. Can you just pick up where you 12 13 were? 14 A. Sure. If it is not, it can ultimately propagate into the 15 right heart or it may tilt such that its filtering efficiency 02:23PM 16 is compromised. The occurrence of filter migration in the 17 literature varies from 6 percent to 53 percent. And there's 18 references cited. 19 And this information, or the memo is written in 1996, is 20 that right? 02:23PM 21 A. Yes, sir. 22 If you would, what is the next sentence about filter 23 migration? 24 Minor filter migration in the caudal or cephalic direction

is commonly reported and does not appear to be associated with

2055 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 clinically significant events. 2 Q. And was that information that the FDA was considering in 3 1996? 4 A. Yes, sir. MR. ROGERS: And let's move on to Section F. 5 02:23PM Would you pull that out, please? 6 BY MR. ROGERS: 7 8 Mr. Van Vleet, what did the FDA say in regard to caval penetration in this memo? 10 The filter must be designed such that it is secure within 02:24PM 11 the vena cava without penetrating the wall of this vessel and 12 potentially penetrating nearby organs. Slight penetration of 13 the caval wall by filter struts is usually asymptomatic and 14 clinically insignificant, perhaps because penetration occurs 15 gradually allowing time for the vessel wall to fibrose. 02:24PM 16 Ο. And did it report a rate? 17 A caval penetration rate of 9 percent has been reported. 18 And let's move on to Section J. Well, before we move on to 19 J, I'm sorry, underneath F there's G. And what does that 20 section address? 02:24PM 21 Filter tilting and angulation. Α. 22 And so what did the FDA include in this memo regarding 23 filter tilting?

24 The significance of tilting and angulation of caval filter

25 after placement is controversial. There is a theoretical loss

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 of filtering efficacy of any filter when tilted or angulated 2 significantly. However, there is no good clinical data to 3 support a definite increased incidence in PE or failure to trap 4 thrombi. A properly designed device should minimize the possibility for tilting upon deployment or angulating after 5 02:25PM implantation. This risk can be controlled by special controls. 6 7 Q. Thank you. 8 MR. ROGERS: You can pull that down. Can we move to 9 the next, Page 7? And under the Section J, can you pull that 10 out, please? 02:25PM 11 BY MR. ROGERS: 12 And what did this section regarding fracture of filter have 13 in it regarding these filters at that time? 14 Filters may fracture as a result of direct trauma to the 15 abdomen or from a metal fatigue phenomenon when perforation 02:26PM 16 exists and the tip of the leg becomes locked into a vertebral 17 body or adjacent and mobile tissues whereby the respiratory 18 motion may then cause repeated unanticipated flexion of the 19 filter leg, or it may fracture due to metal corrosion and weld. 20 The fracture fragments may migrate locally or distally. This 02:26PM 21 complication --22 Continue. I'm sorry. Ο. 23 This complication usually is asymptomatic and requires no 24 treatment. The incidence of occurrence has been reported at 2 25 percent. Filter fracture is a function of design and delivery 02:26PM

02:27PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 into the IVC. The risk can be controlled by special controls. Q. Was all of this information information that FDA considered 2 3 in 1996 in making a determination whether IVC filters should be down-classified? 4 5 A. Yes. 02:26PM Q. And I believe you told us earlier that the FDA ultimately 6 7 did decide to down-classify IVC filters from Class III to Class 8 II. 9 A. Yes. 10 MR. ROGERS: You can take that down, please. 02:27PM 11 BY MR. ROGERS: 12 Q. Mr. Van Vleet, let's kind of move forward chronologically. 13 We were just looking at a document from 1996, and I want to 14 bring us back to the year 2010. 15 And were you familiar with an FDA safety communication 02:27PM that was issued by FDA in 2010 regarding IVC filters? 16 17 A. Yes. 18 MR. ROGERS: And can we pull up Exhibit 6911? 19 I misspoke. It's 6991. Excuse me. 20 Your Honor, may we publish? This as in evidence. 02:27PM 21 THE COURT: Yes, you may. 22 BY MR. ROGERS: 23 Mr. Van Vleet, is this the safety communication? 24 Α. Yes.

And were you the regulatory affairs vice president when

25

Q.

```
-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
     this safety communication was issued?
         Yes, I was.
 2
 3
     Q. And did Bard undertake some effort in order to send
 4
     information out regarding this safety communication?
 5
     A. Yes.
                                                                        02:28PM
              MR. ROGERS: And if we could, could we pull up Exhibit
 6
 7
     5923.
 8
              And, Your Honor, this -- I'm not going to publish this
 9
     again because -- well, I take it back. Your Honor, I believe
10
     this has been moved into evidence, although I'm not sure if
                                                                        02:28PM
11
     there was any issues about it.
12
              THE COURT: Is this 5923?
13
              MR. ROGERS: It is 5923.
14
              MR. CLARK: No objection.
15
              THE COURT: We show it in evidence.
                                                                        02:28PM
     BY MR. ROGERS:
16
17
         So Mr. Van Vleet, can you tell us please what this letter
18
     is?
19
         It's a letter to -- it's addressed to: Clinical Caregiver.
20
     Q.
         And are you the person that signed the letter?
                                                                        02:28PM
21
         Yes.
     Α.
22
         And so what was the purpose of this?
     Q.
23
         It was to respond to what I felt were numerous questions
24
     that we had received or I had received personally from
25
     physicians and other customers and reflecting maybe some
                                                                        02:29PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-
 1
     concerns or confusion about the initial communication, the
 2
     safety communication.
 3
     Q. And in the third paragraph there, that first sentence, can
 4
     you read that for the jury, please?
    A. All vena cava filters have the potential for complications.
 5
                                                                       02:29PM
     Dr. Bram Zuckerman, the director of FDA Center for Devices and
 6
 7
    Radiological Health Division of Cardiovascular Devices was
 8
     quoted recently in an interview with the Associated Press
 9
     wherein he indicated that problems had been seen with all
10
     retrievable filters and that FDA is in the process of
                                                                       02:29PM
11
     completing an analysis of data on filter problems generally.
12
              MR. ROGERS: Your Honor, may we publish?
13
              THE COURT: After the break. We're going to break
     until 2:45, Ladies and Gentlemen.
14
15
              (Recess from 2:29 p.m. until 2:46 p.m.)
                                                                        02:29PM
16
              THE COURT: You may continue, Mr. Rogers.
17
              MR. ROGERS: Thank you, Your Honor.
18
              THE COURT: Go ahead.
19
              MR. ROGERS: Your Honor, before the break I had asked
20
     if we could publish Exhibit 5923 which has been admitted.
                                                                       02:46PM
              THE COURT: Yes, you may.
21
22
    BY MR. ROGERS:
23
         And Mr. Van Vleet, on your screen, is this the letter that
24
     you had authored and sent out in September of 2010?
25
     Α.
         Yes.
                                                                        02:46PM
```

02:47PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 And up at the top, it says: Dear Clinical Caregiver. 2 you see that? 3 Α. Yes. 4 And how did you decide who would receive a copy of this 5 letter? 02:46PM A. So it would have been a combination of anybody that's 6 7 involved in the receipt of IVC filters, whether it was a 8 purchasing person, a hospital employee, or physicians that we 9 knew had used the device. And there in the second paragraph, that last sentence. 10 02:46PM MR. ROGERS: Would you pull that out, please, Scott? 11 12 Thank you. 13 BY MR. ROGERS: 14 And what in this sentence did you encourage doctors to do? 15 So we encouraged physicians to review the FDA initial 02:47PM 16 communication and to consider the risks and benefits of filter 17 removal for each patient. 18 MR. ROGERS: You can take that down. Thank you. 19 And can we pull up Exhibit 7960. BY MR. ROGERS: 20 02:47PM 21 And Mr. Van Vleet, can you see the exhibit? Q. 22 Α. Yes. 23 And can you tell the jury just generally what this is 24 without going into a description of it?

Α. Sure. It's a summary of all of the clinical studies that

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	have been conducted, I believe, in support of FDA application	
2	for clearance.	
3	Q. And were you personally involved in the creation of this	
4	handout?	
5	A. Yes.	02:47PM
6	Q. What was your involvement?	
7	A. As regulatory head, it's my responsibility to approve and	
8	make sure that all of the information is accurate and it's also	
9	appropriately contexted and that it's fair and balanced.	
10	Q. And from time to time, did Bard prepare handouts to provide	02:48PM
11	to physicians and other health care providers?	
12	A. Yes.	
13	MR. ROGERS: Your Honor, at this time I move this	
14	document into evidence.	
15	MR. CLARK: No objection.	02:48PM
16	THE COURT: Admitted.	
17	MR. ROGERS: May we publish?	
18	THE COURT: You may.	
19	BY MR. ROGERS:	
20	Q. Mr. Van Vleet, now that the jury has seen the document, can	02:48PM
21	you describe just physically how this would be used? Well,	
22	strike that question.	
23	I'm really trying to was this something that would	
24	be laminated?	
25	A. It would have been something that could be left with a	02:48PM

02:48PM

02:49PM

02:49PM

02:49PM

02:49PM

- 1 customer.
- Q. And would it be something that would be left behind for the
- 3 | customer at their office?
- 4 A. Yes. That would have been the intention.
- 5 Q. And can you tell the jury what your thought process was in
- 6 assembling this information?
- 7 A. The purpose for pulling this together was to context the
- 8 | clinical performance of the Bard filters with the clinical
- 9 performance of other filters on the market.
- 10 Q. And the first column that we see there is the EVEREST
- 11 | study. Do you see that?
- 12 A. Yes.
- 13 Q. And that study is the study you previously discussed that
- 14 relates to the G2?
- 15 A. Yes.
- 16 Q. How about these other studies that we may not recognize?
- 17 We see Olivia, Charles, Lynch, Cantwell, Lynch. Do you see
- 18 those?
- 19 A. Yes.
- 20 Q. What are those studies?
- 21 A. So if you look at the second list down where it says
- 22 | "filter," that identifies the actual product that the studies
- 23 | were evaluating. So the first one, two, three, four five, six
- 24 | studies are Bard products and then the last four would be other
- 25 | competitive products, probably the more recent products cleared

02:51PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct-1 on the market. It looks like you also included a column for the Nicholson 2 3 study, is that right? 4 Α. Yes. Q. What was your thinking in including information about that 5 02:49PM 6 study? 7 The data that was summarized by Dr. Nicholson was so 8 completely different than anything we had seen in the 9 literature about either Bard filters or any other filter, and 10 we had some specific concerns about the data. 02:50PM 11 Q. And the last four columns, you have got four separate 12 studies there. And do those studies involve Bard filters? 13 A. No. 14 And what was the purpose of including the information about 15 those studies? 02:50PM I think those were -- well, for sure, option -- those were 16 17 other major filters being used by the interventional radiology community. 18 19 Q. And are all the studies that are contained in this handout 20 studies that a doctor could go look up in the published 02:50PM 21 literature? 22 Yes. Α. 23 Can we go to the second page of the handout? 24 And on this particular page there is some complication

rates down there. Do you see that?

02:51PM

02:51PM

02:51PM

02:52PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct

- 1 A. Yes.
- Q. And there's a column there for G2. Do you see that?
- 3 A. Yes.
- 4 Q. And where does that information come from?
- 5 A. That comes from, I believe that comes from the IFU, the

6 Instructions For Use and the data initially -- or originated in

- 7 the EVEREST clinical trial.
- 8 Q. And I'm sorry, did you say the EVEREST clinical trial?
- 9 A. Yes.
- 10 Q. Okay. And as far as the rates of fracture are concerned,
- 11 | what are the rates that are reported there for Bard and the
- 12 other filters?
- 13 A. Bard had a rate of 1.2 percent. That was the one patient
- 14 | with the, I think, 82 patient denominator. Celect had no
- 15 reported fractures. And the Tulip study, Gunther Tulip study
- 16 | they were not recorded or reported in the study, so we
- 17 attempted to context it the way it was known to us. And then
- 18 Option and OptEase had no fractures.
- 19 Q. Do each of these columns represent information from one
- 20 | clinical study?
- 21 A. Yes.
- 22 | Q. Mr. Van Vleet, just to wrap up, you were at Bard for a
- 23 | little bit more than 11 years, is that right?
- 24 A. 10 and-a-half years.
- 25 Q. 10 and a half. Excuse me. Were you familiar with the

02:52PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Direct	
1	internal processes at Bard regarding corrective actions?	
2	A. Yes.	
3	Q. And throughout the course of your time at Bard, did it ever	
4	become to a point where Bard felt like there was any corrective	
5	action that needed to be done regarding its IVC filters based	02:52PM
6	on the internal data that the company had?	
7	A. No.	
8	Q. And has Bard ever made a decision that any of its the	
9	IVC filters on the market while you were there, starting with	
10	the G2, that any of those filters should be recalled?	02:53PM
11	A. No.	
12	Q. Thank you, Mr. Van Vleet. I have no further questions.	
13	THE COURT: Cross-examination.	
14	MR. CLARK: Yes, Your Honor.	
15	Your Honor, may I be permitted to approach the witness	02:53PM
16	and provide him a copy of his transcript from testimony a few	
17	months ago?	
18	THE COURT: Sure. Why don't you just give it to	
19	Traci. She'll hand it to him.	
20	CROSS-EXAMINATION	02:53PM
21	BY MR. CLARK:	
22	Q. Afternoon, Mr. Van Vleet. I'm going to go through a couple	
23	things in a sort of scattered fashion just to pick up on a few	
24	points Mr. Rogers raised with you.	
25	With respect to the letter that you designed to go to	02:53PM

02:55PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 customers and people who used IVC filters, do you remember that 2 testimony? 3 Α. Yes. 4 It was Exhibit 5923? Take my word for it? 5 I will take your word for it. 02:54PM 6 Now, that letter did not contain any warning rates or 7 anything about fractures, tilt, migration, with respect to 8 Bard's G2 family of filters. Is that correct? A. Yeah. The text of that letter did not contain any specific 10 rates. 02:54PM 11 Q. Okay. And in terms of the document you were shown from 1996 that was the down-classification memo? 12 13 A. Yes. 14 The solution that the authors concluded there was that 15 fracture is something that would be a function of the filter's 02:54PM 16 design and implantation. Do you remember that? 17 I know that those words were there. I'd have to see the 18 actual text to see. 19 Well, you read those words to the jury today. Right? 20 Α. Uh-huh. 02:54PM 21 That's a yes? Q. 22 Yes, I read those words. 23 You were asked some questions about Dr. Nicholson's study. Q. 24 Just to be clear, Dr. Nicholson has never been a consultant or

a thought leader or anybody compensated by Bard. Is that

25

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross	
1	right?	
2	A. Not to my knowledge.	
3	Q. And the FDA was concerned after receiving information about	
4	that study, and that's what prompted the meeting where you	
5	assembled a team of 9 or 10 people to meet with the FDA, right?	02:55PM
6	A. Bard was concerned, and we actually I personally called	
7	the meeting.	
8	Q. You illustrated some statistics at the bottom of Exhibit	
9	7960. Do you remember that, where we talked about filter	
10	migration rates, fracture rates, tilt rates, things like that?	02:55PM
11	You just gave that testimony to Mr. Rogers. Do you remember	
12	that?	
13	A. I would have to look at and see. Was that the clinical	
14	study report or	
15	Q. Let me see if I can put this up. Will that show on his	02:55PM
16	screen?	
17	THE COURT: You want it shown to the witness?	
18	MR. CLARK: Yes, please.	
19	THE COURT: What is this?	
20	MR. CLARK: This is Exhibit 7690.	02:56PM
21	THE COURT: Do you want it displayed to the jury?	
22	MR. CLARK: Sure.	
23	THE COURT: Okay.	
24	MR. CLARK: Thank you.	
25	BY MR. ROGERS:	02:56PM

- 1 Q. Now, this what we're looking at here with my finger, those
- 2 are the rates that came from the EVEREST trial, right?
- 3 A. Correct.
- 4 Q. And the fracture rate was higher than any of the other
- 5 | filters recorded, correct?

02:56PM

02:56PM

- 6 A. It is numerically higher than any of the other filters.
- 7 Q. And the caudal migration rate was higher than any of the
- 8 other filters, right?
- 9 A. Yes. It also was numerically higher than others.
- 10 Q. And the filter tilt of greater than 15 degrees was
- 11 numerically higher than any of the other filters, correct?
- 12 A. It would be hard to say, because I don't believe the filter
- 13 tilt was reported in those studies.
- 14 Q. The penetration rate was higher than the other recorded
- 15 | filters, correct?

02:56PM

- 16 A. In three of them, correct.
- 17 Q. And one of the ones just didn't have the information?
- 18 A. Didn't have that information included.
- 19 Q. And that's all information that was also in the Binkert
- 20 | article that you talked about with Mr. Rogers, correct?

02:56PM

- 21 A. The EVEREST information was. I'm not sure if the other
- 22 | competitive filters were.
- 23 | Q. What I'd like to do in the interest of time, is to ask you
- 24 | a series of questions. And I think they are all capable of you
- 25 can tell me if it's true or false, and if it's not true or

02:57PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 false I have got a little category here where you can tell me I can't answer true or false. Is that fair? 2 3 Α. Sure. Yes. 4 And could I show the witness these questions one at a time? 5 THE COURT: Show the questions to the witness? 02:57PM 6 MR. CLARK: Yes. 7 THE COURT: Yes. You can show the questions to the 8 witness. 9 MR. CLARK: Sure. BY MR. CLARK: 10 02:57PM 11 Can you see that, sir? 12 Α. Yes. 13 Got a little controlled question here. First one is: 14 name is John Van Vleet. Is that true or false or I can't 15 answer true or false? 02:57PM 16 A. That is true. 17 Q. Now, second statement: The FDA relies on medical device 18 manufacturers to provide truthful, accurate, and reliable 19 information about medical devices. True, false or I can't 20 answer true or false? 02:58PM 21 That is true. Α. 22 Q. Dr. Scott Trerotola was a paid consultant for Bard during 23 your tenure with Bard? 24 Α. That is true. 25 During your tenure with Bard, Dr. Jay Nicholson published a Q. 02:58PM ------5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-

- 1 study raising concerns about the number of recovery and G2
- 2 | Filter fractures doctors at his hospital found in a study.
- 3 A. True.
- 4 Q. Bard lost filter sales as a result of Dr. Nicholson's
- 5 study.

9

02:58PM

- 6 A. I can't answer true or false.
- 7 Q. Fair enough.
- 8 One of Bard's responses to the Nicholson study was to

try to launch the Eclipse Filter ASAP. Do you remember that?

10 A. I don't believe that's true. I believe that's false.

02:58PM

- 11 Q. That's false.
- 12 The only design difference between the Eclipse Filter
- 13 and the G2 is that the Eclipse is electropolished?
- 14 A. The base wire for the Eclipse is electropolished, correct.
- 15 | Electropolishing is the change. True.

02:59PM

- 16 Q. Put that in the true category?
- 17 A. Yes.
- 18 Q. The Eclipse Filter does not contain caudal anchors?
- 19 A. True.
- 20 Q. Caudal anchors reduce caudal migration?

02:59PM

- 21 A. Caudal anchors are designed to reduce caudal migration.
- 22 | O. True?
- 23 A. I believe that's true.
- 24 Q. And these are just based on your belief. I understand if
- 25 | you have a question you can tell me you can't answer true or

02:59PM

02:59PM

03:00PM

03:00PM

03:00PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-

- 1 false.
- 2 Bard understood as early as 2006 caudal anchors can 3 reduce caudal migration.
- 4 A. I can't answer true or false.
- 5 Q. Bard understood from the EVEREST trial that we have heard

6 about that migration can lead to tilt, perforation, and

- 7 fracture.
- 8 A. I probably have to say I can't answer true or false on
- 9 that.
- 10 Q. Fair enough. At the time Bard was seeking FDA clearance
- 11 | for the Eclipse Filter, it had plans to create a filter with
- 12 | caudal anchors.
- 13 A. I'm a little rusty on my chronology, so I don't know
- 14 exactly when the filter with caudal anchors was begun to be
- 15 designed. But it sounds reasonable. But I would have to look
- 16 at the dates because the projects start at different times.
- 17 Q. We'll put that as can't answer true or false to be fair.
- 18 A. That's fine.
- 19 Q. The filter with caudal anchors became the Meridian?
- 20 A. Correct.
- 21 Q. Now, caudal anchors made the Meridian 16 times for
- 22 resistant to caudal migration than the Eclipse?
- 23 A. I can't answer. It sounds like a good number but I would
- 24 have to look at the report.
- 25 | Q. Do you have independent recollection that the addition of

03:00PM

- 1 | caudal anchors did make that filter more resistant to caudal
- 2 | migration?
- 3 A. It stands to reason. I just don't know what the numbers
- 4 were for sure.
- 5 Q. The FDA did not do any independent testing of the G2 or

03:01PM

- 6 | Eclipse filters, right?
- 7 A. So I do know that we tested the Eclipse Filter because we
- 8 didn't have the capability to do some of the testing. So there
- 9 was other external labs involved in the testing.
- 10 Q. FDA labs?

03:01PM

- 11 A. I'm sorry?
- 12 O. FDA labs?
- 13 A. FDA did have a lab, and we agreed on the way the testing
- 14 | should be conducted, but it was an independent test house, like
- 15 Manasi or somebody.

03:01PM

03:02PM

- 16 Q. To your knowledge, the FDA itself never independently
- 17 tested either of these filters?
- 18 A. I don't know if they did or not. I know they have an
- 19 Office of Science and Laboratories.
- 20 Q. We'll put you down for can't answer true or false. Fair?

- 21 A. Okay.
- 22 Q. Controlled question: Your name is still John Van Vleet?
- 23 A. Yes, that's true.
- 24 Q. Dr. John Lehmann was an independent consultant for Bard
- 25 during some of your tenure at Bard, correct?

03:02PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-

- 1 A. I believe so. I have never met him.
- 2 Q. Dr. Lehmann was originally going to be the person who
- 3 | signed Bard's submission to the FDA reporting on the EVEREST
- 4 trial. True?
- 5 A. I don't know. I wasn't there. I didn't -- I didn't hire

03:02PM

03:02PM

- 6 him so I -- it sounds reasonable, but I don't know what his
- 7 | role was or who was giving him direction.
- 8 Q. Can't answer true or false for that one?
- 9 A. Yeah. I think that's probably good.
- 10 Q. Do you remember that Dr. Lehmann did not want to include
- 11 SIR guideline information in Bard's EVEREST trial submission?
- 12 A. I do remember e-mail discussions of that.
- 13 | O. That would be true?
- 14 A. Yes.
- 15 Q. Now, Dr. Lehmann didn't want to include the SIR guideline

03:02PM

- 16 information because they are not intended for anyone other than
- 17 physicians, right?
- 18 A. I believe that that may have been one of the reasons. I
- 19 | really didn't understand his rationale.
- 20 Q. I will put that as a true with asterisk by it. Fair
- 03:03PM

- 21 enough?
- 22 A. Sure.
- 23 Q. Dr. Lehmann did not believe it would be truthful and
- 24 | accurate for Bard to represent that the EVEREST trial
- 25 demonstrated that the G2 was substantially equivalent to

03:03PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-

- 1 | similar devices.
- 2 A. I can't answer true or false. I'm not sure what was in his
- 3 head.
- 4 Q. In his proposed draft of the EVEREST trial submission, Dr.
- 5 Lehmann deleted the representation that the EVEREST trial

03:03PM

- 6 demonstrated substantial equivalence to similar devices?
- 7 A. I can't answer true or false to that.
- 8 Q. After getting this report back from Dr. Lehmann, you
- 9 requested that he be removed as the submitting author for the
- 10 | EVEREST trial report?

03:04PM

- 11 A. I believe he was removed or I don't know. I actually saw
- 12 | his name as one of the authors. But I can't remember true or
- 13 false.
- 14 Q. Well do you remember the part of that submission that Mr.
- 15 Rogers blew up for you and it was signed by Dr. Ciavarella and

03:04PM

- 16 not Dr. Lehmann?
- 17 A. I didn't look at that part, but yeah, if that's the way it
- 18 was.
- 19 Q. More to the point, did you ask that he be removed from this
- 20 | project, Dr. Lehmann?

03:04PM

- 21 A. I can't recall if I specifically asked that he be removed
- 22 | from the project. I know we had differences of opinions for
- 23 sure.
- 24 Q. I will skip the next one. I think you have already
- 25 | answered it.

03:04PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-

- 1 The final report that was ultimately sent to the FDA 2 includes comparison data from the SIR guidelines.
- 3 right?
- I believe that's true. 4
- 5 And we saw some of that today?

03:04PM

- Uh-huh. 6
- Q. Yes? 7
- 8 Yes. Uh-huh.
- 9 The final report sent to the FDA indicates, quote, "The
- 10 overall study results constitute valid scientific evidence
- 11 regarding the overall performance of Bard Recovery G2 Filter
- 12 system as an IVC filter and serves as a valid basis for
- 13 comparison in determining that the Recovery G2 Filter is
- 14 substantial equivalent to similarly marketed devices.
- 15 That seems reasonable. I would have to look at the report
- 16 make sure.
- 17 True with an asterisk? 0.
- 18 Α. Sure.
- 19 To your knowledge, Bard never told, at least during your Q.
- 20 tenure there, the FDA about Dr. Lehmann's concerns about
- 21 including the SIR guidelines in its EVEREST submission?
- 22 To my knowledge, no. True.
- 23 To your knowledge, Bard never told the FDA about Dr. Q.
- 24 Lehmann's concerns about the truthfulness of a statement that
- 25 the EVEREST trial data showed that the G2 Filter was

03:05PM

03:05PM

03:05PM

03:05PM

03:07PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 substantially equivalent to other devices? I can't answer true or false. 2 3 Q. To your knowledge that never happened, though, correct? 4 Yeah. To my knowledge, correct. 5 As late as October 28, 2015 Bard employee Josh Smale was 03:06PM representing to the medical community that the Simon Nitinol 6 7 Filter had a, quote, "safe track record of use for over 20 8 years," close quote? 9 It sounds reasonable. 10 True with an asterisk? 03:06PM I guess the part I don't understand is representing to the 11 12 medical community. 13 Are you aware of him making that representation to others 14 involved in filter use? 15 I can't -- I guess I can't answer true or false on that 03:06PM 16 one. 17 Would it surprise you if he did make that representation? 18 It wouldn't be surprising, no. 19 If I could direct your attention, sir, to the transcript in Q. 20 front of you from testimony you provided about two months ago, 03:06PM 21 I have tagged a few --22 MR. ROGERS: Objection, Your Honor. I don't believe 23 there's been any question that's been asked that would make 24 impeachment proper.

I'm getting to that. I'm just trying to

MR. CLARK:

25

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 get him oriented. 2 THE COURT: I'm going to overrule at this point. Go 3 ahead. BY MR. CLARK: 4 5 Q. Sir, I asked you some questions earlier about your 03:07PM recollection of -- hang on one second here. Let me go to a 6 7 better document. 8 MR. CLARK: Gay, could you please pull up Exhibit 1036? 9 10 While she's pulling it up let me go back to that 03:07PM 11 transcript real quick. BY MR. CLARK: 12 13 Q. I think you told me earlier, sir, that you did not recall 14 whether Mr. Dr. Lehmann had a concern about including a 15 statement that the EVEREST trial demonstrated substantial 03:08PM 16 equivalence between the G2 and similar devices. Do you 17 remember that testimony? 18 I'm sorry. Can you repeat the question? I was reading. 19 Q. Sure. Do you remember giving testimony earlier to me that 20 you did not recall Dr. Lehmann having a concern about including 03:08PM 21 a statement in the FDA submission on the EVEREST trial that the 22 G2 -- that the study demonstrated that the G2 was substantially 23 equivalent to other devices? 24 Can you say the very beginning part again? 25 Q. Yeah. Earlier when we were talking, you told me you 03:08PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 couldn't say true false or --2 Α. Right. 3 Q. -- regarding that statement. Do you remember that? 4 A. Correct. 5 So you don't have any recollection of Dr. Lehmann 03:08PM expressing concern about including a statement to the FDA that 6 7 the EVEREST trial showed that the G2 was substantially 8 equivalent to other similar devices? 9 I don't have a specific recollection. 10 Can I direct your attention to page 4547.63, which is, I 03:09PM 11 think, the third tab in the transcript I have laid before you? 12 Α. . 63? 0. 063? 13 14 A. Yes. 15 The question on Line 5 says, "On re-reading the document, I 16 realize that we have an unsupported regulatory statement that 17 needs modification relating to the EVEREST trial demonstrating 18 substantial equivalence to similar devices which it obviously 19 didn't do. So I have deleted that sentence." 20 And the question is, do you see that? You said you 03:09PM 21 did see that? 22 A. Uh-huh. 23 Does that refresh your recollection that Dr. Lehmann had

25 A. It does. I would have to see what I was reading at the

some concerns about including that language?

24

03:09PM

2079 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross-1 time to respond to that, but yes. 2 MR. CLARK: Let's go back to 1036, please, Gay. 3 BY MR. CLARK: 4 Q. Mr. Van Vleet, this is an e-mail that you authored, 5 correct? 03:10PM 6 A. Correct. 7 MR. CLARK: And if you could pull to the last 8 paragraph before the signature. 9 BY MR. CLARK: 10 This e-mail is discussing some frustration that you were 03:10PM 11 encountering with Dr. Lehmann's proposed revisions to the 12 EVEREST trial submission to the FDA, correct? 13 A. Correct. 14 And you had asked that Dr. Lehmann be reassigned from 15 authorship of this report, correct? 03:10PM 16 A. Correct. When this report was developed there was not a director of clinical research or affairs at Bard Peripheral 17 18 Vascular. So now that there was, I felt it was appropriate 19 that we reassign the signature to John Reviere. 20 Q. You didn't like what Dr. Lehmann was proposing with his 03:10PM 21 revisions, correct? 22 I didn't understand what he was proposing, to be quite 23 honest with you, and he was 2500 miles away. 24 Q. And Dr. Lehmann was, in fact, reassigned from authorship of

03:11PM

25

that study, correct?

	2080	
	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Cross	
1	A. It wouldn't surprise me that he was. But we certainly did	
2	have John Reviere's signature on that.	
3	Q. Lastly, you were asked some questions about the patient	
4	brochure for the Eclipse?	
5	A. Yes.	03:11PM
6	Q. And I didn't see anything in there about any relative	
7	increase of risk of those complications associated with the	
8	Eclipse Filter.	
9	Is that fair? Those are not in there.	
10	A. Increase in risk relative to what?	03:11PM
11	Q. Use of the Eclipse Filter.	
12	A. Okay.	
13	Q. Let me give you some context.	
14	There's a number of complications that are listed in	
15	that brochure, correct.	03:11PM
16	A. Correct.	
17	Q. And but it doesn't say anything about whether this filter	
18	makes those complications more or less likely than other	
19	filters. Fair?	
20	A. I don't believe that there was anything that made a	03:11PM
21	comparison one way or the other.	
22	Q. Thank you, sir. No further questions.	
23	THE COURT: Redirect?	
24	MR. ROGERS: Very briefly, Your Honor.	

Can we pull Exhibit 7960 back up? That is not what I

25

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Redirect-1 was looking for. The last exhibit we used. 2 THE COURT: 1036. Oh, that you used? 3 MR. ROGERS: I'm sorry. The last exhibit I used, the 4 handout. I may have written down the wrong number. 5 Thank you. Can we go to the second page, please? 03:12PM REDIRECT EXAMINATION 6 7 BY MR. ROGERS: 8 Q. And Mr. Van Vleet, you were just asked some questions about 9 this bottom left portion there? MR. ROGERS: Scott, would you mind blowing that up? 10 03:12PM BY MR. ROGERS: 11 12 Q. You were asked some questions by plaintiff's counsel about 13 this. Do you recall that? 14 A. Yes. 15 Q. And was this chart, was that contained in this handout that 03:12PM 16 was to be provided to doctors about the Bard's IVC filters? 17 A. Yes. 18 And Mr. Van Vleet, do you believe that this information was 19 fair and balanced about what these particular studies showed? 20 A. I do believe it was. 03:13PM 21 And Mr. Van Vleet, has it been a while since you have taken 22 a true/false test? 23 A. Probably. 24 And I expect you have never taken a true/false test in 25 court before, have you? 03:13PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Van Vleet-Redirect	
1	A. I certainly have not.	
2	MR. ROGERS: And if you would, can we go to the last	
3	exhibit that was used, which was 1036?	
4	BY MR. ROGERS:	
5	Q. Mr. Van Vleet, were you asked some questions about this	03:13PM
6	particular e-mail?	
7	A. Yes.	
8	Q. And what's the date of that e-mail?	
9	A. September 27th, 2007.	
10	Q. So it's been more than 10 years ago since you wrote this	03:13PM
11	e-mail?	
12	A. Yes.	
13	Q. And Mr. Van Vleet, is it true or false that you can't	
14	recall everything that you wrote in an e-mail 10 years ago?	
15	A. That's very true.	03:13PM
16	Q. Thank you. No further questions.	
17	THE COURT: All right, sir. You can step down.	
18	MR. NORTH: Your Honor, at this time we would recall	
19	Mr. Rob Carr to the stand.	
20	THE COURT: If you want to stand up, Ladies and	03:14PM
21	Gentlemen, while he's coming in, feel free.	
22	Mr. Carr, you are still under oath for purposes of the	
23	trial, so you can come back to the witness chair.	
24	***	
25	***	

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	ROB CARR,	
2	called as a witness herein, having been previously sworn, was	
3	examined and testified as follows:	
4	DIRECT EXAMINATION	
5	BY MR. NORTH:	
6	Q. Good afternoon Mr. Carr.	
7	A. Good afternoon.	
8	Q. I believe the jury has met you a couple weeks ago, but now	
9	I'd like to ask you a few questions myself.	
10	Could you briefly describe for the jury your	03:15PM
11	educational background?	
12	A. I have a Bachelor of Science in Biomedical Engineering from	
13	the Catholic University of America in Washington, D.C.	
14	Q. And what is biomedical engineering?	
15	A. It's a discipline that marries the biological classes with,	03:15PM
16	in my case, mechanical engineering classes. Sometimes it's	
17	electrical engineering. In my case it was mechanical.	
18	Q. Do you live here in Phoenix?	
19	A. I do.	
20	Q. And are you married?	03:15PM
21	A. I am.	
22	Q. And are you part of a medical sort of family?	
23	A. Yes.	
24	Q. Why did you become an engineer?	
25	A. I was always interested in either becoming a veterinarian	03:15PM

- 1 or a physician, and engineering seemed like a nice entree into
- 2 either of those at the time.
- 3 Q. Has most of your professional career since college been
- 4 involved with medical devices?
- 5 A. All of it.

03:16PM

- 6 Q. What was your first job after graduating from college at
- 7 | Catholic University?
- 8 A. In Boston, I worked for a startup biotech firm called
- 9 Organogenesis.
- 10 Q. And can you tell us what Organogenesis does, or did?

03:16PM

- 11 A. Still does. We worked on collagen-based material, so it's
- 12 | a natural protein in your body and we tried to create different
- 13 | structural things out of it, blood vessels, urinary patches,
- 14 things like that.
- 15 Q. And for how many years did you work at Organogenesis?

03:16PM

03:17PM

- 16 A. About seven.
- 17 Q. And what was your position generally at that company?
- 18 A. I held different engineering positions. When I left I was
- 19 the director of R&D, research and development.
- 20 Q. And was NMT or Nitinol Medical Technologies your next job
- 21 | after you left that company?
- 22 A. Yes, it was.
- 23 Q. And when did you join NMT?
- 24 A. September of 1996.
- 25 Q. What positions did you hold at NMT during your years there?

03:17PM

2085 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 Α. Again, different levels of R&D positions. 2 Q. What was your position at the time you left? 3 Α. I think program director of R&D. 4 Q. And you left NMT to come to Bard? I did. 5 Α. 03:17PM 6 Q. And what year was that? 7 Α. July 1st, 2002. 8 So you were with NMT approximately six years? Α. Yes. 10 What product did you -- or products did you spend most of 03:17PM 11 your time working with while at NMT? 12 Vena cava filters as well as a device used to seal a hole 13 in your heart called a PFO. 14 When you started working with IVC filters in the 1990s, 15 what type of filters were available? 03:18PM 16 Α. Just permanent filters. 17 0. What material are Bard's or NMT's filters made of? 18 Nitinol. Α. 19 Describe for us briefly what Nitinol is. How was it 20 originated? 03:18PM 21 So it's a material that was developed by the Navy, and it 22 is a shape memory, it's called, material that at one 23 temperature can be in one shape and then at a different

While working at NMT, did you work with a physician by the

03:18PM

temperature can form into a different shape.

24

25

Q.

2086 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 name of Dr. Morris Simon? 2 Yes. 3 Q. Who was Dr. Simon? 4 He was a world renowned interventional radiologist at Beth Israel Hospital in Boston. And he had developed what is the 5 03:19PM Simon Nitinol Filter and was one of the founders of NMT 6 7 Medical. 8 Was he considered a pioneer in the development of IVC filters? 10 Absolutely. 03:19PM 11 Did you work with Dr. Simon in the development of a new filter after the introduction of the Simon Nitinol? 12 13 It became the Recovery Filter. 14 Why were you and Dr. Simon working on the development of a 15 retrievable filter when you already had the Simon Nitinol 03:19PM 16 Filter on the market? 17 A. Dr. Simon and others that we worked with felt that there 18 were many patients who were getting permanent filters that 19 didn't necessarily need a permanent filter forever, that the 20 reason why they were getting a filter was temporary. And so 03:19PM 21 while unknown what that length would be, it was temporary. 22 And so he wanted to work to develop a filter, if we 23 could, that could be implanted, remain in forever, or be

removed at any time when it was no longer needed.

24

25

From your work with Dr. Simon, did it appear that he was Q.

03:20PM

03:20PM

03:20PM

03:21PM

03:21PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- passionate about this project?
- 2 A. We were all very passionate about it.
- 3 Q. Besides Dr. Simon, were there other medical professionals
- 4 | who assisted in the development of IVC filters at NMT?
- 5 A. Yes. There were several. The main ones was John Kaufman
- 6 who was an interventional radiologist at Mass General at the
- 7 | time and Tony Venbrux, who was an in interventional radiologist
- 8 at Johns Hopkins in Baltimore at the time.
- 9 Q. Did you begin working on the development of what became the
- 10 | Recovery Filter when you first started in 1996?
- 11 A. It was shortly after I started on the septal occluder
- 12 device first, but yes, certainly shortly after.
- 13 Q. What was the work environment or the atmosphere at NMT
- 14 surrounding these products to develop a retrievable filter?
- 15 A. It was a great place to work. He had very smart people
- 16 doing something nobody else had ever done, literally, and
- 17 | trying to create a device that could save a lot of people's
- 18 | lives and very collegiate, very academic, but very driven at
- 19 the same time.
- 20 Q. Now, at some point NMT sold its rights to the Recovery
- 21 | Filter to C.R. Bard, correct?
- 22 A. Yes. I believe October of 2001.
- 23 Q. And did NMT also sell the rights to the Simon Nitinol
- 24 | Filter at that time?
- 25 A. Yes.

03:21PM

03:22PM

03:22PM

03:22PM

03:23PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- 1 Q. And then how soon after that sale did you move to Bard?
- 2 A. I started July 1st, so about nine months.
- 3 Q. Why did you decide to move to Bard in July of 2002?
- 4 A. It was a great opportunity, both for my family -- my oldest
- 5 children were just about to start kindergarten. My wife had
- 6 graduated from school and the opportunity to continue to
- 7 develop filters and work for a larger, more stable medical
- 8 device company.
- 9 Q. And so when you moved to Bard, did you receive the
- 10 opportunity to continue to work with IVC filters?
- 11 A. I did, yes.
- 12 Q. And what was your position when you moved to Bard?
- 13 A. It was program director.
- 14 Q. And did any of your other colleagues at NMT eventually join
- 15 you at Bard?
- 16 A. Yes. Ultimately, I brought Andrzej Chanduszko from NMT to
- 17 Bard.
- 18 Q. Had you worked with Mr. Chanduszko while at NMT in filter
- 19 development projects?
- 20 A. Yes. In fact, we started the same day.
- 21 | Q. When you came over to Bard did you continue to work with
- 22 Dr. Kaufman and Dr. Venbrux as consultants on the projects?
- 23 A. Yes, we did.
- 24 Q. Mr. Carr, let's talk a little bit about your experience as
- 25 | a biomedical engineer in the development of new medical

03:23PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	devices.	
2	Could we bring up slide 6089 Exhibit 6089.	
3	Are you familiar with this document?	
4	A. Yes. I created it.	
5	Q. And what is this document?	03:23PM
6	A. It's an outline that walks through our new product	
7	development system, or the way we develop products.	
8	Q. Have you used this particular presentation on the job at	
9	Bard?	
10	A. Yes.	03:23PM
11	Q. In what kind of context?	
12	A. To outline the way we do things and what we focus on, our	
13	steps through the development cycle.	
14	MR. NORTH: Your Honor, at this time we would offer	
15	for admission Exhibit 6089.	03:24PM
16	MR. O'CONNOR: No objection, Your Honor.	
17	THE COURT: Admitted.	
18	MR. NORTH: Could we display, Your Honor?	
19	THE COURT: Yes.	
20	MR. NORTH: Could we turn to Page 3.	03:24PM
21	BY MR. NORTH:	
22	Q. If you would, Mr. Carr, walk through for the jury what you	
23	are attempting to depict here regarding the new product	
24	development process.	
25	A. So what this slide says, if you work from left to right,	03:24PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

yeah, my left to right, you start with ideas. And so, you know, our business is based on creating needs out of unmet needs so there are ideas of those solutions. As those ideas percolate we put together a business case to hopefully either pursue those ideas or not. And that's where you see your approved idea, POA, which is product opportunity assessment.

03:24PM

If successfully passing through that gate, we enter what's called the concept phase where we take some of those ideas and hopefully make them more real; so potential solutions, some prototypes, if you will. We do some testing. And the goal of concept phase is really to eliminate all of the show stoppers or unmet questions.

03:25PM

We then go through a design review where that's reviewed by independent people off of the project. Feasibility is a continuation of that process where those ideas and prototypes are further refined. We develop all the design inputs, all the specifications. We hold another design review to say that, yes, those are what we want the product to be. Then through development, we actually build samples for testing through all of our, what's called, verification and validation testing. Go through yet another design review to make sure those outputs have met the inputs that were created before and

03:25PM

03:26PM

03:26PM

then get another approval to launch the product obviously

assuming that we had regulatory approval before that.

03:27PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 period of time we do a post-launch design review where we take in all of the data that we have had from complaints, from 2 3 sales, from operational efficiencies, things like that and hold 4 yet another design review. If we could turn to Page 13 on that very topic. 5 03:26PM Why do you conduct a post-launch review and an 6 7 additional design review even though the product is already out 8 on the market? 9 To double check that things are going well; to assess where that product is, and again, from both externally looking out 10 03:27PM 11 into the field as well as internally looking from a production 12 and cost and operations point of view. 13 When the G2 and the Eclipse filters were being designed and 14 developed, was this general product development cycle followed? 15 Α. Yes. 03:27PM 16 Mr. Carr, over the course of your years, have you been 17 actively involved with engineering issues at Bard Peripheral 18 Vascular? 19 Sure. Α. 20 And for a lot of that time, have you been involved with 03:27PM 21 filters specifically? 22 Α. Yes. 23 Are you familiar generally with how much money the Division

has invested in the research and development of its filters?

24

25

Α.

Yes.

Over \$18 million.

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- 1 0. And would that stretch from 2003 to 2017?
- 2 A. Yes.
- 3 Q. Did they spend anywhere close to that amount of money that
- 4 | they spent in research and development in marketing filters?
- 5 A. No, about one-third of that.

03:28PM

- 6 Q. Let's talk briefly about the Recovery Filter and its
- 7 development first.
- Is it fair to say based on what you told us earlier
  that the development of the Recovery Filter began in 1996 or
- 10 thereabouts?

03:28PM

- 11 A. Yes.
- 12 | Q. Did NMT, you and your fellow team members at NMT have to
- develop a number of prototypes for the Recovery Filter before
- 14 you settled on the ultimate design?
- 15 A. Yes, very many.

03:28PM

- 16 Q. And why were some prototypes rejected or not used?
- 17 A. For one reason or another, they failed our testing or were
- 18 | maybe too difficult to make or were just not practical
- 19 solutions at the end of the day.
- 20 Q. When was the initial design of the Recovery Filter as it
- 21 | ultimately came to be marketed, created, or invented?
- 22 A. Probably 1998-ish.
- 23 Q. So did it take you and your team approximately two years in
- 24 | testing various prototypes to come up with the ultimate design?
- 25 A. Yes.

03:29PM

03:29PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- ${\tt Q}.$  Once you arrived at what would be the ultimate design among
- 2 those various prototypes, what was the next step?
- 3 A. We would do benchtop testing.
- 4 Q. What type of tests did you perform on the proposed design
- 5 | while at NMT?

03:29PM

- 6 A. They would be tests that ranged from testing the strength
- 7 of the device, tensile strength, to migration testing, to clot
- 8 trapping, to some animal tests where we looked at the filters
- 9 implanted, could they be removed without damaging the vena
- 10 cava. A whole battery of tests.

03:30PM

- 11 | Q. In your 25-plus years in the medical device industry, have
- 12 bench tests been fairly typical in the product development
- 13 | cycle?
- 14 A. Mandatory.
- 15 Q. And in developing and testing what became the Recovery

03:30PM

- 16 | Filter, did NMT also conduct some animal tests?
- 17 A. Yes, we did.
- 18 Q. And what physicians assisted you with the animal tests?
- 19 A. Dr. Simon, but primarily Doctors Venbrux and Kaufman.
- 20 Q. And in the development of the Recovery Filter, did you also
- 21 ultimately conduct, or did NMT conduct a clinical study?
- 22 A. Yes. We did a special access study in Toronto with Dr.
- 23 Asch.
- 24 Q. In your experience, are clinical studies common for these
- 25 types of medical devices?

03:31PM

03:30PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	A. Yes.	
2	Q. Are they typical or common for devices that go through the	
3	510(k) process as opposed to the PMA or approval process?	
4	A. No. Not routinely.	
5	Q. If we could bring up Exhibit 5189. Do you recognize what	03:31PM
6	this is, Mr. Carr?	
7	A. Yes.	
8	Q. And what is it?	
9	A. It is the special 510(k) submission filed in November of	
10	2002.	03:31PM
11	Q. Was this the submission to the FDA for a permanent	
12	indication for the Recovery Filter?	
13	A. Yes.	
14	Q. Was this submitted after you had already joined Bard?	
15	A. Yes.	03:31PM
16	Q. And were you personally involved in preparing this	
17	submission, Mr. Carr?	
18	A. Yes.	
19	MR. NORTH: Your Honor, at this time we would tender	
20	5189.	03:32PM
21	THE COURT: I show it in evidence.	
22	MR. NORTH: I'm sorry, Your Honor. Could we display	
23	it, please?	
24	THE COURT: You may.	
25	BY MR. NORTH:	03:32PM

03:32PM

03:32PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- 1 | Q. Could we turn to Page 18, please.
- What does this portion of the 510(k) generally depict?
- 3 A. It's the summary of the design control activities, so it
- 4 outlines on the left part of the table the changes or
- 5 | modifications to the filter, the predicate device, and in the
- 6 | bottom the delivery system, and then to the right the tests
- 7 that were performed based on those changes.
- 8 Q. If we could turn to Page 20, please.
- 9 What is clot trapping efficiency?
- 10 A. It's how well the filter performs its ultimate function
- 11 which is to stop clots from going to the lungs which is called
- 12 | a pulmonary embolism.
- 13 Q. If we could look down at the bottom of that page under
- 14 | summary, did Bard provide the FDA with a summary of the test
- 15 results regarding clot trapping efficiency that the company had 03:33PM
- 16 performed?
- 17 A. Yes, we did.
- 18 Q. Now, Mr. Carr, to be clear, were some of the tests that
- 19 Bard was submitting to the FDA tests that had been performed
- 20 | with your or Mr. Chanduszko's involvement while still at NMT?
- 21 A. Yes.
- 22 Q. Were there other tests that you performed or various
- 23 | engineers performed once you moved to Bard that were also part
- 24 of the submission?
- 25 A. Yes.

03:33PM

03:33PM

03:35PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 O. If we could turn to Page 21, please. 2 What is this particular test that you are describing 3 for the FDA? 4 It's the migration test that was performed. Q. Did the -- looking down at this summary did the company 5 03:34PM again provide the FDA with a summary of the test results 6 regarding migration resistance? 7 8 A. Yes, we did. 9 Q. And let's turn to Page 23, please. 10 Is the same true for tests performed by NMT and Bard 03:34PM 11 concerning weld, integrity, and hook strength for the device? Yes, it is. 12 Α. And again, was all of that information shared with the FDA? 13 14 Α. Yes. 15 Q. If we could turn to Page 24, please. Corrosion fatigue 03:34PM 16 testing. Did the company share with the FDA, again, all 17 information concerning those tests that had been performed on 18 the Recovery Filter? 19 A. Yes, we did. 20 Q. And then if we could turn to Page 25. Is the same thing 03:35PM 21 true with regard to radial strength testing? 22 Α. Yes. 23 Q. 26, please.

The same with simulated use testing?

24

25

Α.

Yes.

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-

- 1 Q. What is simulated use study?
- 2 A. It studied the ability to deploy the filter and then how
- 3 | the filter centered in the vessel that it was put into as well
- 4 | as the forces and trackability, we call it, so the ability to
- 5 | track through the tortuous vessels to the site that you want to | 03:35PM
- 6 implant it.
- 7 Q. If we could turn to Page 29.
- B Did Bard, in this submission in November of 2002,
- 9 provide the FDA with information in a detailed summary of the
- 10 | study, clinical study, conducted by Dr. Murray Asch?
- 11 A. Yes.
- 12 Q. If we could turn to Page 33, please.
- Now, we heard testimony, this jury heard testimony
- 14 | couple weeks ago about two patients who had complications in
- 15 | that study. Do you recall those patients?
- 16 A. Yes.
- 17 Q. And were they referred to as Patient Number 9 and Patient
- 18 | Number 33?
- 19 A. Yes.
- 20 Q. In this submission to the FDA to obtain clearance for the
- 21 | Recovery Filter in November of 2002, did Bard provide
- 22 | information to the agency about those complications reported in
- 23 | the Asch study?
- 24 A. Yes.
- 25 | Q. And did you also provide information here to the agency

03:36PM

03:35PM

03:36PM

03:36PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	about your investigation of those complications?	
2	A. Yes.	
3	Q. If we could bring up 5187.	
4	MR. NORTH: I believe this is admitted. Oh. I'm	
5	sorry, Your Honor.	03:37PM
6	BY MR. NORTH:	
7	Q. Tell us what 5187 is, Mr. Carr.	
8	A. It is a response by the FDA to our submission where they	
9	asked us a series of questions.	
10	Q. And have you seen those questions before?	03:37PM
11	A. Yes, I have.	
12	Q. And were you involved in helping prepare Bard's response to	
13	those questions?	
14	A. Yes.	
15	MR. NORTH: Your Honor, at this time we would tender	03:37PM
16	5187 for admission.	
17	MR. O'CONNOR: We have no objection, Your Honor.	
18	THE COURT: Admitted.	
19	MR. NORTH: May we display, Your Honor?	
20	THE COURT: Yes.	03:37PM
21	MR. NORTH: Thank you.	
22	BY MR. NORTH:	
23	Q. Scroll down to the last page, if you would. Go back one	
24	page, I'm sorry. One more.	
25	How many questions total did the FDA pose to Bard	03:38PM

Case 2:15-md-02641-DGC Document 11408 Filed 06/08/18 Page 107 of 138 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 regarding the submission? 17. 2 Α. 3 And this letter is dated August of 2002. Is that correct, 4 the first page, please? A. Yes, August 5th. 5 And I may have misspoke earlier referring to the actual 6 7 510(k) as dated November of 2002. Is that date the actual date 8 that it was cleared? 9 A. Yes. I believe so.

10 Q. Let's look at Page 2, if we could. 03:38PM

03:38PM

11 In Question 3, what -- 3, 4, and 5, what is the agency 12 asking the company regarding the testing information that had

13 been provided in the 510(k)?

14 A. All three are in response or on the subject of clot 15 trapping efficiency. And so Question Number 4, they are asking

16 for the data for the test. And then Question 5 is a

17 clarification of the testing parameters.

18 Okay. If we could look further down that page at Question

19 What is the agency requesting here?

20 A. Our testing that shows that the Recovery Filter doesn't

cause caval perforation, meaning it doesn't go through the

22 vessel.

21

23 If we could look on the same page at Question 10. What is

24 the agency asking Bard about here?

25 For the data, again, behind the simulated use study. 03:39PM

03:39PM

	2100	
	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	Q. If we could turn to Page 3, please.	
2	Let's look at Questions 11 through 13, please. What	
3	is the agency interested in here?	
4	A. A lot of the force testing. So the first one is the weld	
5	integrity and hook strength, which is a measure of how strongly	03:40PM
6	the wires are welded to the top of the device. Question 12 is,	
7	again, they are asking for the protocol and the results.	
8	Q. If we could go down to Question 14, please. What is the	
9	agency asking about here?	
10	A. A radial strength test.	03:40PM
11	Q. And then if we could look together at 15 and 16.	
12	A. It's about biocompatibility.	
13	Q. Now, if we could bring up Exhibit 5182, please.	
14	Do you recognize what this document is?	
15	A. Yes.	03:41PM
16	Q. What is it?	
17	A. It is our responses to those questions.	
18	Q. And what is that dated?	
19	A. August 30, 2002.	
20	MR. NORTH: Your Honor, at this time we would offer	03:41PM
21	for admission Exhibit 5182.	
22	MR. O'CONNOR: No objection, Your Honor.	
23	THE COURT: Admitted.	
24	BY MR. NORTH:	

What sort of information did Bard provide the agency in

25

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 response to those 17 questions they had posed? As much information as we could. Certainly whether they --2 3 some of them had just asked for protocols and test methods so 4 we provided them our documentation for that. Where it required 5 further testing we would have done that. We tried to answer 03:41PM each question as thoroughly and responsibly as possible. 6 7 Q. If we could look at Page 11, please. 8 MR. NORTH: Could we display, Your Honor? THE COURT: You may. 9 10 BY MR. NORTH: 03:42PM 11 Did Bard respond to the agency's questions regarding 12 corrosion and fatigue testing? 13 Α. Yes. 14 By providing what sorts of information? 15 We provided our cyclical testing that we did at the time 03:42PM 16 per standard. We also provided our fatigue testing at the 17 time. 18 Q. Did Bard actually provide test reports themselves to the 19 agency with these answers to the questions? 20 A. Yes. 03:42PM 21 If we could turn to Page 30, please. For example, is this 22 a cyclic polarization testing that was provided as an appendix 23 to the letter response? 24 Α. Yes, it is.

Is this the report on simulated

03:43PM

25

Q.

117, please. Next page.

21U2 	1
use that you actually then submitted to the agency in	
conjunction with that letter?	
A. Yes.	
Q. And were there a number of other similar type test reports	
that you actually gave to the agency?	03:43PM
A. We would have given them anything that supported the	
answer, so yes.	
Q. So after that information was provided in that letter dated	
August 30 of 2002, did you hear back from the FDA?	
A. Yes. They had some more questions.	03:43PM
Q. If we could bring up Exhibit 5179, please.	
What is this, Mr. Carr?	
A. This is that letter back from them with their additional	
questions.	
Q. Were you involved on behalf of the company in preparing	03:43PM
responses to this letter?	
A. Yes.	
MR. NORTH: Your Honor, at this time we would offer	
for admission Exhibit 5179.	
MR. O'CONNOR: No objection, Your Honor.	03:44PM
THE COURT: Admitted.	
MR. NORTH: May we display, Your Honor?	
THE COURT: Yes.	
BY MR. NORTH:	
Q. Let's look at Question Number 1, if we could.	03:44PM
	use that you actually then submitted to the agency in conjunction with that letter?  A. Yes.  Q. And were there a number of other similar type test reports that you actually gave to the agency?  A. We would have given them anything that supported the answer, so yes.  Q. So after that information was provided in that letter dated August 30 of 2002, did you hear back from the FDA?  A. Yes. They had some more questions.  Q. If we could bring up Exhibit 5179, please.  What is this, Mr. Carr?  A. This is that letter back from them with their additional questions.  Q. Were you involved on behalf of the company in preparing responses to this letter?  A. Yes.  MR. NORTH: Your Honor, at this time we would offer for admission Exhibit 5179.  MR. O'CONNOR: No objection, Your Honor.  THE COURT: Admitted.  MR. NORTH: May we display, Your Honor?  THE COURT: Yes.  BY MR. NORTH:

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	What is the agency asking here with its follow-up	
2	questions?	
3	A. Further clarification on our clot trapping testing.	
4	Q. Let's look at Question Number 2. What is the agency asking	
5	about here?	03:44PM
6	A. Further clarification for a radial strength testing.	
7	Q. Let's highlight the first line, if we could.	
8	Is the FDA in this letter specifically referencing its	
9	guidance that was published in 1999 for filters?	
10	A. Yes, it is.	03:45PM
11	Q. And if we could turn to the next page, please.	
12	Looking at Question 3, about midway down that	
13	paragraph, does the agency ask you to revise your indications	
14	for use?	
15	A. Yes, they do.	03:45PM
16	Q. Now, if we could bring up Exhibit 5178, please. What is	
17	this?	
18	A. That's our responses to their second round of questions.	
19	Q. Now	
20	MR. NORTH: Well, Your Honor, at this time we would	03:45PM
21	tender Exhibit 5178 for admission.	
22	MR. O'CONNOR: No objection.	
23	THE COURT: Admitted.	
24	MR. NORTH: May we display, Your Honor?	
25	THE COURT: Yes.	03:45PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	BY MR. NORTH:	
2	Q. Mr. Carr, just so we're not all confused here, this list or	
3	seems to be on the letterhead of a company called IMPRA. Could	
4	you tell us what IMPRA was?	
5	A. It was the former name of what is now Bard Peripheral	03:46PM
6	Vascular.	
7	Q. At the top left does it identify IMPRA as a subsidiary of	
8	C.R. Bard?	
9	A. Yes, it does.	
10	Q. So did Bard provide various information to the FDA in this	03:46PM
11	letter in response to the second round of questions the agency	
12	had?	
13	A. Yes.	
14	Q. If we could bring up Exhibit 5177, please.	
15	And is this the letter from the agency providing	03:46PM
16	clearance for the Recovery Filter for permanent indication?	
17	A. It is their concurrence letter, yes.	
18	MR. NORTH: Your Honor, I think this one may be	
19	admitted.	
20	THE COURT: 5177? No.	03:47PM
21	MR. NORTH: Then I would tender it for admission, Your	
22	Honor.	
23	MR. O'CONNOR: No objection.	
24	THE COURT: Admitted.	
25	MR. NORTH: And could we display, Your Honor?	03:47PM

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-
 1
              THE COURT: Yes.
 2
     BY MR. NORTH:
 3
         What's the date of this again, Mr. Carr?
 4
     A. November 27th, 2002.
     Q. And is that the same date that we saw on the actual 510(k)
 5
                                                                        03:47PM
     submission that we viewed earlier?
 6
 7
     A. Yes, it is.
 8
         Now, did Bard thereafter submit an additional 510(k) for
     the Recovery Filter to obtain clearance as a retrievable
10
     device?
                                                                        03:47PM
11
     A. Yes, we did.
12
     Q. Let's bring up 5169.
13
              Is this a copy of the application for clearance as a
14
     retrievable filter?
15
     A. Yes.
                                                                        03:47PM
     Q. And this shows a date of July 25, 2003?
16
17
     A. Yes.
18
     Q. Again, is that the date that the application was ultimately
19
     cleared?
20
     A. I'd have to look inside to be sure.
                                                                        03:48PM
21
              MR. NORTH: Your Honor, at this time if not already
22
     admitted we would tender 5169.
23
              MR. O'CONNOR: No objection.
24
              THE COURT: Admitted.
25
              MR. NORTH: Could we display, please?
                                                                        03:48PM
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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-
 1
              THE COURT: You may.
 2
     BY MR. NORTH:
 3
     Q. Let's look at the second page, if we could.
 4
              Does this demonstrate what date this was actually
     first submitted to the FDA?
 5
                                                                        03:48PM
     A. Yes. April 25th.
 6
     Q. Did the FDA ultimately clear the device for retrievable
 7
 8
     use?
     A. Yes, they did.
10
     Q. As a part of this submission, did you provide the FDA with
                                                                        03:48PM
11
     additional information more than you had previously provided
     with the first 510(k)?
12
13
     A. Yes.
14
     O. Did that include additional clinical information from the
15
     Asch study?
                                                                        03:49PM
16
     A. Yes, it did.
17
        Did that include animal study information?
18
     Α.
        Yes.
19
        If we could bring up Exhibit 5197, please.
     Q.
              And what is 5197?
20
                                                                        03:49PM
21
         It is the FDA's letter agreeing with us and their
22
     concurrence letter.
23
     Q. And did that clear the device for sale as a retrievable
24
     filter in this country?
     A. Yes, it did.
25
                                                                        03:49PM
```

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	MR. NORTH: Your Honor, at this time we would tender	
2	for admission Exhibit 5197.	
3	MR. O'CONNOR: No objection.	
4	THE COURT: Admitted.	
5	MR. NORTH: And could we display?	03:49PM
6	THE COURT: Yes.	
7	BY MR. NORTH:	
8	Q. Mr. Carr, when did Bard start the development process for	
9	the G2 filter?	
10	A. Sometime in early 2004.	03:50PM
11	Q. Why did Bard decide to start developing the G2 Filter?	
12	A. We thought we could make an improved device. For all of	
13	our devices we were constantly trying to make the next	
14	generation device that is better and to replace ourselves	
15	rather than have somebody else replace us.	03:50PM
16	Q. And were there specific design attributes of the Recovery	
17	Filter that Bard hoped to improve with the G2 Filter?	
18	A. Yes. We wanted to improve migration and fracture	
19	resistance.	
20	Q. What is a product performance specification?	03:50PM
21	A. It is the document that outlines how you want the device to	
22	behave so the design inputs that I mentioned earlier are	
23	referenced in this document. So how big it is, how tall it is,	
24	how what size sheath it needs to go through, the performance	
25	criteria that you want the device to have.	03:51PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	MR. NORTH: If we could bring up Exhibit 5296, please.	
2	And bring up the second page, please.	
3	BY MR. NORTH:	
4	Q. Can you identify what this is, Mr. Carr?	
5	A. It is the PPS, or performance Product Performance	03:51PM
6	Specification for the G2 Filter.	
7	MR. NORTH: Your Honor, at this time we would offer	
8	for admission Exhibit 5296.	
9	THE COURTROOM DEPUTY: I show it in.	
10	MR. O'CONNOR: No objection.	03:51PM
11	THE COURT: We show it in evidence.	
12	MR. NORTH: I'm sorry, Your Honor. Could we display?	
13	THE COURT: Yes.	
14	BY MR. NORTH:	
15	Q. If we could turn to Page 17, please. What does this mean	03:52PM
16	by "design input"?	
17	A. Again, we have what we want the device to be, both from a	
18	user point of view as well from how that translates to an	
19	engineering specification.	
20	Q. And if we could look under user requirement for filter	03:52PM
21	migration resistance. And what was the aim for the G2 Filter?	
22	A. That the filter be statistically the migration	
23	resistance of the filter be statistically greater than that of	
24	the Recovery Filter in a 28 millimeter diameter simulated IVC	
25	or vessel.	03:52PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	Q. And under pass or fail, did the G2 pass or fail these	
2	criteria?	
3	A. It ultimately passed.	
4	Q. Let's talk were there also some animal tests performed	
5	on the G2 Filter?	03:53PM
6	A. Yes.	
7	Q. And are there two types of animal tests that are generally	
8	performed?	
9	A. Yes. We did what's called chronic testing, which is	
10	shorter term, and then we did testing where we implanted	03:53PM
11	filters for a longer time and tried to remove them.	
12	Q. If we could bring up Exhibit 5301.	
13	Do you recognize what this is?	
14	A. Yes.	
15	Q. What is this?	03:53PM
16	A. It's a test report from the G2 animal study.	
17	MR. NORTH: Your Honor, at this time we would offer	
18	5301.	
19	MR. O'CONNOR: Your Honor, just foundation in terms of	
20	date or time of this document, please.	03:53PM
21	THE COURT: Mr. North, can you lay that foundation?	
22	MR. NORTH: Bring up the second page for Mr. Carr, if	
23	you would.	
24	BY MR. NORTH:	
25	Q. Can you tell the general time frame of this test was	03:54PM

03:55PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 performed by looking at the second page? 2 A. Yes. It's January of 2005. 3 MR. O'CONNOR: Thank you. I appreciate that. No 4 objection. THE COURT: 5301 is admitted. 5 03:54PM MR. NORTH: If we could turn back to the first page. 6 If we could display, Your Honor. 7 8 THE COURT: You may. 9 BY MR. NORTH: 10 Q. What is meant here where they call it the Recovery Filter 03:54PM 11 G1A? 12 A. Just the name of the filter that ultimately became G2. 13 Q. Is this the chronic or the acute animal study or can you 14 tell? 15 A. I would have to see the next page. 03:54PM 16 Q. Okay. Let's see the next page, if we could. 17 Probably the next one. Sorry. Probably the next one. 18 There. I'd have to see the outline of the study. 19 I can't tell off the top of my head here. Sorry. 20 Q. Tell you what. Let's bring up Exhibit 5034 if we can. And 03:55PM 21 do you recognize what this is? 22 A. Yes. This is the chronic report. 23 Q. So is this a separate animal study than the one we were 24 just looking at? 25

A. Yes.

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	Q. If we could look at the next page. Was this performed in	
2	early 2005 also?	
3	A. Yes, in March.	
4	MR. NORTH: Your Honor, at this time we would offer	
5	for admission 5304.	03:55PM
6	MR. O'CONNOR: No objection.	
7	THE COURT: Admitted.	
8	MR. NORTH: If we could display, Your Honor.	
9	THE COURT: You may.	
10	BY MR. NORTH:	03:56PM
11	Q. Does this indicate that Andrzej Chanduszko was involved in	
12	approving the test on behalf of the engineering department?	
13	A. Yes, it does.	
14	Q. And if we could turn to Page 11, please.	
15	Looking at the second paragraph towards the it's	03:56PM
16	talking about physician investigators. Do you recall who the	
17	physician investigators were assisting with the animal studies?	
18	A. Yes. It was Dr. Venbrux and Dr. Kaufman.	
19	Q. Did Bard also perform bench testing when developing the G2?	
20	A. Yes.	03:56PM
21	MR. NORTH: If we could bring up Exhibit 5302. I	
22	believe this is already admitted.	
23	THE COURT: It is.	
24	MR. NORTH: Could we display, Your Honor?	
25	THE COURT: Yes.	03:56PM

- 1 BY MR. NORTH:
- 2 Q. And are you familiar with this, Mr. Carr?
- 3 A. Yes, I am.
- 4 Q. And tell us just -- we have heard a little bit of testimony
- 5 about it. Tell us generally what this is.

03:57PM

- 6 A. So this is the protocol on how to conduct our verification
- 7 and validation testing for what became the G2 Filter.
- 8 Q. What is design verification?
- 9 A. It's showing that your design meets your design inputs.
- 10 Q. And what is design validation as opposed to -- as it may

03:57PM

- 11 differ from verification?
- 12 A. You are validating that it meets your user needs.
- 13 MR. NORTH: If we could bring up Exhibit 5303. I
- 14 | believe that's admitted also if we could display, Your Honor.
- THE COURT: You may. I.

03:57PM

03:57PM

- 16 BY MR. NORTH:
- 17 Q. Is this the actual design verification and validation
- 18 report regarding the G2?
- 19 A. Yes, it is.
- 20 Q. If we could look at Page 9, please. Does this begin a
- 21 section talking at the top of the page about test results and
- 22 | summary of data?
- 23 A. Yes, it does.
- 24 Q. And what is this particular test?
- 25 A. This is a dimensional test of the outer diameter of the

03:58PM

-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 dilator which is the sheath that the filter goes through. And did the G2 pass this test? 2 3 A. Yes, it did. 4 If we could turn to Page 12, please. Is this the same sort of simulated use test that the FDA had asked all those 5 03:58PM questions about with regard to the Recovery Filter? 6 7 A. Yes. 8 Does this contain the results of the simulated use test on 9 the G2? 10 Α. Yes, it does. 03:58PM 11 And how did the G2 fare with that testing? 12 It passed all the tests. 13 If we look down at the left, next to the last row, filter 14 centering. What is that assessing with regard to the filter? 15 So when you deploy the filter into the tube, you measure 03:59PM 16 where the tip of the filter is with respect to the center of 17 the vessel. 18 Q. If we could turn to Page 13, please. 19 What is filter leg radial strength? What are you 20 measuring there? 03:59PM 21 You are measuring the force that a leg of the filter exerts 22 outward.

- 23 Q. Did the G2 pass that particular test?
- 24 A. Yes, it did.
- 25 Q. Let's look on the same page at Section 7.6. What does

03:59PM

- 1 filter removal force assess?
- 2 A. It is the force that it takes to remove the filter from the
- 3 vessel.
- 4 Q. And did the G2 pass that test?
- 5 A. Yes, it did.

04:00PM

- 6 Q. Let's go to Page 14, please. Looking at the first one up
- 7 | there, what is tensile strength test results? What's that
- 8 assessing?
- 9 A. So it measured two different joints or bonds. We have a
- 10 dilator to the hub of the dilator, which is how you attach to

04:00PM

- 11 it, and then the spline is a piece of the delivery system to --
- 12 | it sits on a wire. And so we measure the force required to
- 13 separate them or remove the spline from the wire.
- 14 Q. Did the G2 pass these tests?
- 15 A. Yes, it did.

04:00PM

- 16 Q. If we could look on the same page at the bottom regarding
- 17 | filter migration test results. Do you see that?
- 18 A. Yes, I do.
- 19 Q. Was this a particular aim for the G2 development?
- 20 A. Yes.

04:01PM

- 21 | Q. And is this testing the stability of the filter when hit by
- 22 | a large clot?
- 23 A. Yes.
- 24 Q. And so is it testing migration resistance to migration from
- 25 | a cephalad direction, or going up?

04:01PM

- 1 A. Going cranially, yes, from the bottom.
- 2 Q. And why would you do this test with different sizes of
- 3 cavas?
- 4 A. To try and show the range of anticipated vessel sizes and
- 5 test the filter in a small lower limit and then 28 is the upper 04:01PM
- 6 limit that the filter is indicated for.
- 7 Q. Let's go to Page 15, if we could. And let's look at the
- 8 bottom table.
- 9 This table indicate how the G2 compared to the
- 10 | Recovery Filter in the migration resistance?

04:02PM

- 11 A. Yes, it does.
- 12 | Q. And what column can you see that best demonstrates that
- 13 | comparison?
- 14 A. The mean, or the third column from the left.
- 15 Q. Does that indicate that -- well, the G1A was the G2?
- 04:02PM

- 16 A. Yes.
- 17 Q. And was this migration, the mean for its migration
- 18 resistance, almost twice that of the Recovery Filter?
- 19 A. Yes, it is.
- 20 Q. And the abbreviation on the title for the table mmHg, what
- 21 | does that stand for?
- 22 A. Millimeters of mercury.
- 23 Q. And tell us briefly what that is as a means of measurement
- 24 here?
- 25 A. It's a pressure -- way to measure pressure, so like your

04:03PM

04:02PM

- 1 | blood pressure or something else.
- 2 Q. Now, there's been some suggestion that the G2 failed this
- 3 test somehow because its mean for migration resistance was less
- 4 | than the Simon Nitinol. Did that concern you?
- 5 A. No.

04:03PM

04:03PM

- 6 Q. Why is that?
- 7 A. Because the intent of the program was to improve the
- 8 Recovery Filter to create the G2. We have competitive testing
- 9 which showed that the G2 is now very comfortably in the upper
- 10 range of competitive devices, and we felt that that migration
- 11 resistance was more than adequate.
- 12 Q. Did the company share this design verification and
- 13 validation test report with the FDA?
- 14 A. Yes, we did.
- 15 Q. And was the FDA aware of how the migration resistance of
- 04:04PM
- 16 | the G2 compared both to the Recovery Filter and the Simon
- 17 | Nitinol Filter?
- 18 A. Yes. We separated it out and explained our rationales.
- 19 Q. Let's look at Page 21, if we could, section 9.16. Is this
- 20 | a discussion of the migration resistance of the G2 versus the
- 04:04PM

- 21 | Simon Nitinol?
- 22 A. Yes, it is.
- 23 Q. And what does it mean when it says the testing did not meet
- 24 | the acceptance criteria as defined in the protocol?
- 25 A. So the initial acceptance criteria was to be statistically

04:05PM

5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
equivalent to the Simon Nitinol Filter or greater, and it did	
not meet that specification. But again, the goal of the	
project was to be significantly better than the Recovery	
Filter.	
Q. And then in the next line, what did you conclude with	04:05PM
regard to the G2 as compared to the Recovery Filter?	
A. That it was significantly better.	
Q. And again, was all of this shared with the FDA?	
A. Yes, it was.	
Q. Could we bring up Exhibit 5252, please.	04:05PM
Do you recognize what this test report is?	
A. Yes, I do.	
Q. And what is this?	
A. It's a characterization study that we did on competitive	
devices.	04:06PM
MR. NORTH: Your Honor, at this time we would tender	
5252.	
MR. O'CONNOR: No objection. Thank you.	
THE COURT: Admitted.	
MR. NORTH: Could we display, Your Honor?	04:06PM
THE COURT: Yes.	
BY MR. NORTH:	
Q. Let's turn to Page 6, if we could, please. There are a lot	
of abbreviations under the left sample ID. Can you tell us,	
are those identifying various filters that were being tested?	04:06PM
	equivalent to the Simon Nitinol Filter or greater, and it did not meet that specification. But again, the goal of the project was to be significantly better than the Recovery Filter.  Q. And then in the next line, what did you conclude with regard to the G2 as compared to the Recovery Filter?  A. That it was significantly better.  Q. And again, was all of this shared with the FDA?  A. Yes, it was.  Q. Could we bring up Exhibit 5252, please.  Do you recognize what this test report is?  A. Yes, I do.  Q. And what is this?  A. It's a characterization study that we did on competitive devices.  MR. NORTH: Your Honor, at this time we would tender 5252.  MR. O'CONNOR: No objection. Thank you.  THE COURT: Admitted.  MR. NORTH: Could we display, Your Honor?  THE COURT: Yes.  BY MR. NORTH:  Q. Let's turn to Page 6, if we could, please. There are a lot of abbreviations under the left sample ID. Can you tell us,

Case 2:15-md-02641-DGC Document 11408 Filed 06/08/18 Page 126 of 138 -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-1 Α. Yes, it is. And what are some of those filters? 2 3 RF stands for Recovery; SF stands for Simon Nitinol; GT is Greenfield; GS is Stainless Steel Greenfield; VT is the Vena 4 5 Tech Filter; TP is the Tulip Filter; O is the OptEase Filter; 04:07PM and T is the Trapease Filter. 6 7 Q. If we could then highlight the mean section. I believe we 8 saw earlier that the mean migration resistance for the G2 was 9 approximately 106.3 millimeters of mercury? 10 Yes. 04:07PM 11 And how did that test result compare to a lot of the 12 competitors here? 13 It was greater than all of the filters but the Trapease and 14 the OptEase. 15 Q. Now, as a part of the development of the G2, did Bard also 04:07PM 16 conduct a finite element analysis? 17 Α. Yes. 18 Q. If we could bring up Exhibit 5307. 19 And can you identify this? Α. This is a process FMEA. 04:08PM 21 And if we could look at the second -- or I'm sorry. Q.

20

22 back to the first page.

Is this for the G2? 23

- 24 Α. Yes. But this isn't the FEA, I don't believe.
- 25 Q. I'm sorry. I juxtaposed numbers. Let's try 5037. It's

04:08PM

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct-
     getting late in the day, I think.
 1
 2
              Do you recognize 5037? And if so, what is this?
 3
    Α.
               This is the report for the FEA analysis.
     Q. Was this for the G2?
 4
 5
    A. Yes.
                                                                       04:09PM
              MR. NORTH: Your Honor, at this time we would tender
 6
 7
     5037.
 8
              THE COURT:
                          It's already any evidence.
 9
              MR. NORTH:
                          Thank you, Your Honor. Could we display?
10
              THE COURT:
                          You may.
                                                                       04:09PM
11
    BY MR. NORTH:
12
     Q. Was the express purpose of this FEA to evaluate the effect
13
     of the changes that had been made to the Recovery Filter to
14
    create the G2?
15
    A. Yes.
                                                                        04:09PM
16
    Q. Let's turn to Page 7, please.
17
              Did Bard conduct this finite element analysis itself,
18
    or did it employ an expert to do so?
19
         No. We contracted out the work to Computer Aided
20
    Engineering.
                                                                       04:09PM
21
     Q. And why did you do that?
22
    A. As you pointed out, they are experts in finite element
23
    analysis.
24
     Q. And then if we could go to Page 4, please. And let's look
25
     at test rationale. What does this indicate that the two
                                                                       04:10PM
```

- 1 | filters were being assessed for?
- 2 A. So they were being assessed in both the loaded, which is
- 3 what we call when the filter's in the package before it's
- 4 delivered so it is constrained in a very small tube. So that's
- 5 | the loaded condition. And then the deployed condition is in
- 6 the diameters that are the size of the vessel.
- 7 Q. Why did you decide to test it in two different scenarios?
- 8 A. The first one has to do with the ability to store the
- 9 device on a shelf, so part of it is aging or shelf life testing
- 10 and also where it's under the most load; and then in the
- 11 deployed condition because that's where the device is going to
- 12 operate.
- 13 Q. And then if we could turn to Page 5, please. And looking
- 14 | at the conclusion, what was the conclusion?
- 15 A. That the modified filter in this case, the G2, shows
- 16 substantially lower peak stresses compared to the original
- 17 design up to 90 percent.
- 18 Q. And is that a good thing to have substantially lower peak
- 19 stresses?
- 20 A. Yes, it is.
- 21 | Q. Now, it does say there's an exception with the legs.
- 22 Explain to us what that means.
- 23 A. So the legs of the G2 Filter in its resting dimension is
- 24 | wider than the resting dimension of the Recovery Filter. So
- 25 | the same leg, because it's further out, will impart more force

04:10PM

04:10PM

04:11PM

04:11PM

04:11PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	outward so the stress is higher in that element.	
2	Q. Now, we have talked generally, I know we haven't covered	
3	every single test, we have talked generally about the bench	
4	testing that was performed for the G2 Filter, correct?	
5	A. Yes.	04:12PM
6	Q. And were there additional tests performed after the initial	
7	design verification and validation report?	
8	A. Yes, there was.	
9	Q. Let's bring up Exhibit 5949, please.	
10	Do you recognize what that is?	04:12PM
11	A. Yes, I do.	
12	Q. What is this?	
13	A. It is a clot trapping test.	
14	Q. And I believe this is already admitted. No?	
15	MR. NORTH: We tender for admission, Your Honor.	04:12PM
16	THE COURT: 5949?	
17	MR. NORTH: Yes.	
18	MR. O'CONNOR: One second, please.	
19	No objection. Thank you.	
20	THE COURT: Admitted.	04:12PM
21	MR. NORTH: And if we could display, Your Honor.	
22	THE COURT: You may.	
23	BY MR. NORTH:	
24	Q. Tell us, Mr. Carr, why Bard, after you had already well,	
25	I'm sorry. Let me back up.	04:13PM

- This appears to have been performed in 2006. Does
- 2 that look correct?
- 3 A. Yes, in May, I believe.
- 4 Q. Was the G2 already on the market at that time being sold?
- 5 A. Yes, it was.

04:13PM

- 6 Q. What was the impetus behind doing this test after the
- 7 | product was already being sold?
- 8 A. We wanted to confirm that the product would operate as
- 9 intended if it happened to be tilted, meaning would it still
- 10 trap clots and prevent pulmonary embolism.

04:13PM

- 11 Q. Did you compare the G2 to some other specific filter?
- 12 A. The Greenfield Filter, which was the gold standard for clot
- 13 trapping.
- 14 Q. And why did you choose the Greenfield Filter?
- 15 A. Again, because it was the filter that everyone compared to
- 04:13PM

- 16 | for clot trapping.
- 17 Q. Let's turn to Page 14 of this exhibit, please. Does this
- 18 indicate under "conclusion" how the G2 performed in this test?
- 19 A. Yes. It's hard to read, but --
- 20 Q. It is, isn't it? It's easier to read without the blowup, I 04:14PM
- 21 think.
- 22 And how did the G2 generally perform?
- 23 A. That the clot trapping efficiency, which is what it's
- 24 | called, was greater than the Greenfield Filter tilted in the
- 25 tube.

04:14PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	]
1	Q. Now, once Bard completed the design verification and	
2	validation testing, what does the company do next? Do you	
3	perform a design review?	
4	A. Yes.	
5	Q. And what's the purpose of that design review at that stage	04:14PM
6	of the development process?	
7	A. It is to review all of the testing that's done to date,	
8	again, to confirm and reconfirm that all of the design inputs	
9	have been met and that we have statistically shown them to be	
10	met and approve the submission of that data to the FDA and, in	04:15PM
11	this case, a 510(k).	
12	Q. If we could bring up Exhibit 5315, please.	
13	Could you identify what that is?	
14	A. It's the cover page for that meeting.	
15	Q. Did you participate in the design review for the G2?	04:15PM
16	A. I think so, but I don't remember 100 percent. If you go to	
17	the next page. And the next one. So I wasn't at this one but	
18	I was at subsequent ones.	
19	MR. NORTH: Your Honor, if not already admitted we	
20	would like to tender 5315.	04:15PM
21	MR. O'CONNOR: No objection.	
22	THE COURT: Admitted.	
23	MR. NORTH: If we could display, please.	
24	THE COURT: You may.	
25	BY MR. NORTH:	04:16PM

1	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	1
1	Q. If we could turn to Page 21, please. What were the	
2	conclusions of this design review regarding the G2?	
3	A. That the filter demonstrated superior performance in	
4	fatigue resistance to Recovery; demonstrated acceptable	
5	performance in all the tests except for migration resistance	04:16PM
6	equivalence at 28 millimeters; and the G2 Filter demonstrated	
7	superior performance in migration compared to the Recovery.	
8	Q. The second bullet point you read, was that migration	
9	resistance equivalent to the Simon Nitinol like we discussed	
10	earlier?	04:16PM
11	A. Yes, it is.	
12	Q. Let's look at 5316, please.	
13	Is this another design review conducted for the G2	
14	Filter?	
15	A. Yes, it is.	04:17PM
16	Q. And did you participate in this one?	
17	A. I believe so.	
18	MR. NORTH: Your Honor, at this time we would offer	
19	for admission Exhibit 5316.	
20	MR. O'CONNOR: No objection.	04:17PM
21	THE COURT: Admitted.	
22	MR. NORTH: Could we display, Your Honor?	
23	THE COURT: You may.	
24	BY MR. NORTH:	
25	Q. If we could turn to Page 6, please. Under "Project Team	04:17PM

	5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-Carr-Direct	
1	Members," does that indicate that you participated?	
2	A. Yes, it does.	
3	Q. And there were a number of other people that participated	
4	from all different types of functions around the company,	
5	correct?	04:17PM
6	A. Yes.	
7	Q. Let's turn to Page 7, if we could.	
8	Objective. What does this define as the purpose for	
9	this particular design review?	
10	A. To review all the testing and documentation to ensure	04:18PM
11	compliance to design specifications and ensure that the device	
12	will perform in a reliable, safe, and effective manner prior to	
13	full market release.	
14	Q. If we could turn to Page 9, please. What were the	
15	conclusions from this particular review?	04:18PM
16	A. The design review team conditionally approved the review.	
17	There was some extra items that needed to be completed prior to	
18	final approval, which they ultimately were.	
19	Q. Then if we could change gears.	
20	THE COURT: If we're changing gears, we'll go ahead	04:19PM
21	and break until morning, Mr. North.	
22	We'll plan, Ladies and Gentlemen, to resume at 9:00.	
23	We'll see you then.	
24	(Jury out at 4:19 p.m.)	
25	THE COURT: You can step down, Mr. Carr. You can have	04:19PM

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2126
               -5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-
 1
     a seat.
 2
              Start gathering up, counsel. I have a sentencing
 3
     starting in 10 minutes. If you can start gathering up your
     stuff, I will calculate the time.
 4
              All right. Counsel, as of now, plaintiff has used 26
 5
                                                                       04:22PM
     hours and 12 minutes and defendants have used 20 hours and 24
 6
 7
    minutes.
 8
              Let's talk about tomorrow. How long do you anticipate
 9
     going tomorrow, Mr. North?
10
              MR. NORTH: Certainly until after lunch, Your Honor.
                                                                       04:22PM
11
     I would think a minimum of 2 and more likely until 3 or so.
12
              THE COURT: And what is your current thinking,
13
     counsel, on rebuttal case?
              MR. O'CONNOR: Well, Your Honor, we are talking about
14
15
          I think we are planning on one. It would not be
                                                                       04:23PM
     significantly long. It may be a video deposition.
16
17
              THE COURT: Okay. All right. Well, let's talk at
18
     noon about where we are. Be prepared, if you would, please, to
19
     talk about jury instructions in the morning.
20
              I got some deposition excerpts from the plaintiff
                                                                       04:23PM
21
     today that looked like they were for the punitive damages case.
22
     One thing that wasn't clear to me as I scanned the objections
23
     from the defense was they were 403 and relevancy objections
```

UNITED STATES DISTRICT COURT

04:23PM

citing the Supreme Court cases and saying that the numbers

should be limited to the Eclipse Filter in Georgia.

24

25

1 My question was how that squares with what we did to 2 the jury instructions where we took out disgorgement of profits 3 as a factor and left in overall profitability. 4 MS. HELM: Your Honor, I think the objections were left in simply to preserve them because that's where --5 04:24PM THE COURT: You are certainly entitled to preserve 6 7 them. 8 MS. HELM: And I believe that the issue that we 9 addressed in the jury instruction conference was actually 10 That testimony was withdrawn, the disgorgement 04:24PM 11 testimony was withdrawn. 12 MR. STOLLER: Correct. There's nothing but the stuff 13 we discussed with respect to what the jury instructions. 14 will get the numbers that go to the financial worth of the 15 company and those sort of things. 04:24PM 16 THE COURT: All right. So were there any -- I don't 17 know if you remember this. Were there -- do I need to go 18 through line by line, or were there other objections besides 19 the one you are preserving to Georgia-based profits and limited 20 to the Eclipse Filter? 04:25PM 21 MS. HELM: No, Your Honor. 22 There are some objections by plaintiffs MR. STOLLER: 23 towards the end. They are discrete. 24 THE COURT: I don't plan to get through those tonight 25 since we're not going to be using them for a day or two if we 04:25PM

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-5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-
 1
     use them.
 2
              MR. O'CONNOR: Your Honor, just quickly, tomorrow is
 3
     going to be a lot of evidence coming in. Just for scheduling
    purposes in view of what Mr. North has indicated, can we safely
 4
    plan to start closings on Thursday morning?
 5
                                                                       04:25PM
              THE COURT: Yes.
 6
 7
              MR. O'CONNOR: Thank you.
 8
              THE COURT: Well, unless we're done with the evidence
 9
    by noon.
10
              MR. NORTH: I will talk slowly.
                                                                       04:25PM
11
              THE COURT: You will put the jury to sleep. Okay.
12
     Assuming we go until 2 in the afternoon, and I think it makes
13
     sense to do closings on Thursday morning just because we
14
    probably wouldn't get through them all tomorrow afternoon and
15
    better to have a fresh jury for closings on Thursday morning.
                                                                       04:25PM
16
              MR. O'CONNOR: Also just for purposes of putting
17
     together, I think there's going to be a lot of adjustments by
18
     tomorrow because of the evidence.
19
              THE COURT: Right. Okay. We'll see you tomorrow
20
    morning at 8:30.
                                                                       04:26PM
21
              MS. HELM: Traci, can we work on the exhibits?
22
              THE COURT: You can, outside the courtroom. I think
23
     we need to close the courtroom for this sentencing.
24
              MS. HELM: We'll take them in our little room and
25
     Traci will let us know when she needs them.
                                                                       04:26PM
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--5-29-18-MD 15-2641-Jones v Bard-Jury Trial-Day 9-\!-
 1
               THE COURT: That's fine.
               Is that okay with you, Traci?
 2
 3
               (Proceeding recessed at 4:26 p.m.)
 4
 5
 6
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1	
2	
3	
4	
5	<u>CERTIFICATE</u>
6	
7	I, LAURIE A. ADAMS, do hereby certify that I am duly
8	appointed and qualified to act as Official Court Reporter for
9	the United States District Court for the District of Arizona.
10	I FURTHER CERTIFY that the foregoing pages constitute
11	a full, true, and accurate transcript of all of that portion of
12	the proceedings contained herein, had in the above-entitled
13	cause on the date specified therein, and that said transcript
14	was prepared under my direction and control.
15	DATED at Phoenix, Arizona, this 30th day of May, 2018.
16	
17	s/Laurie A. Adams
18	Laurie A. Adams, RMR, CRR
19	
20	
21	
22	
23	
24	
25	